State of the
Automation
Professional 2024

UiPath®

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Introduction

Welcome to the 5th annual **State of the Automation Professional 2024.**

Each year, we conduct a comprehensive survey of automation professionals to understand how organizations are staffing for, and supporting this industry. We also study what automation professionals think about their jobs and what the future holds.

Some things have remained consistent each year: automation professionals are satisfied and feel optimistic about the future.

But there are differences as well.

The industry continues to grow, but the rate of growth is slowing.

Additionally, AI is becoming more entrenched in automation processes. 90% of automation professionals are using or planning to use it within the coming year.

Our sincere thanks to the 1,909 automation professionals and students who participated this year from across the globe, representing a broad range of industries. We couldn't have done this without you. Please reach out if you have questions about this year's survey or suggestions for things you'd like us to cover next year at community@uipath.com.
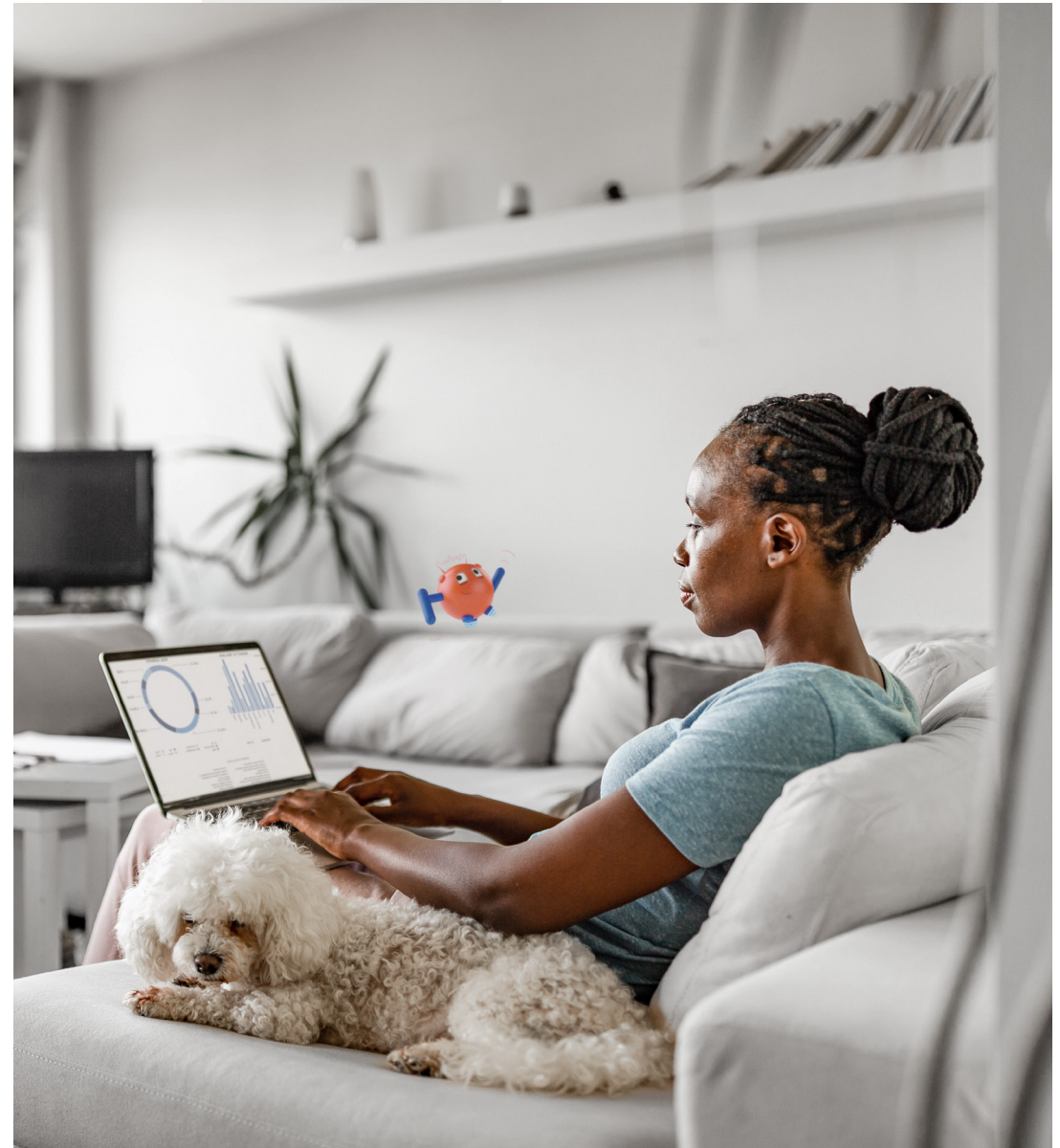
Methodology

This report is based on a global survey of 1,909 automation professionals and students.

42% are software automation developers

19% are business automation professionals

39% are students or those who are interested in software automation
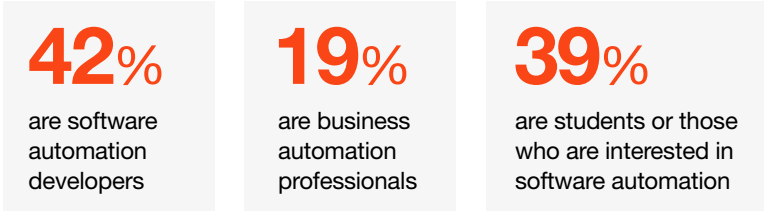
The bulk of the report focuses on automation developers and business automation professionals, whom we refer to collectively as "**automation professionals.**" These professionals come from a diverse range of roles, such as automation developers, business analysts, solution architects, and more—as you can see in the chart.
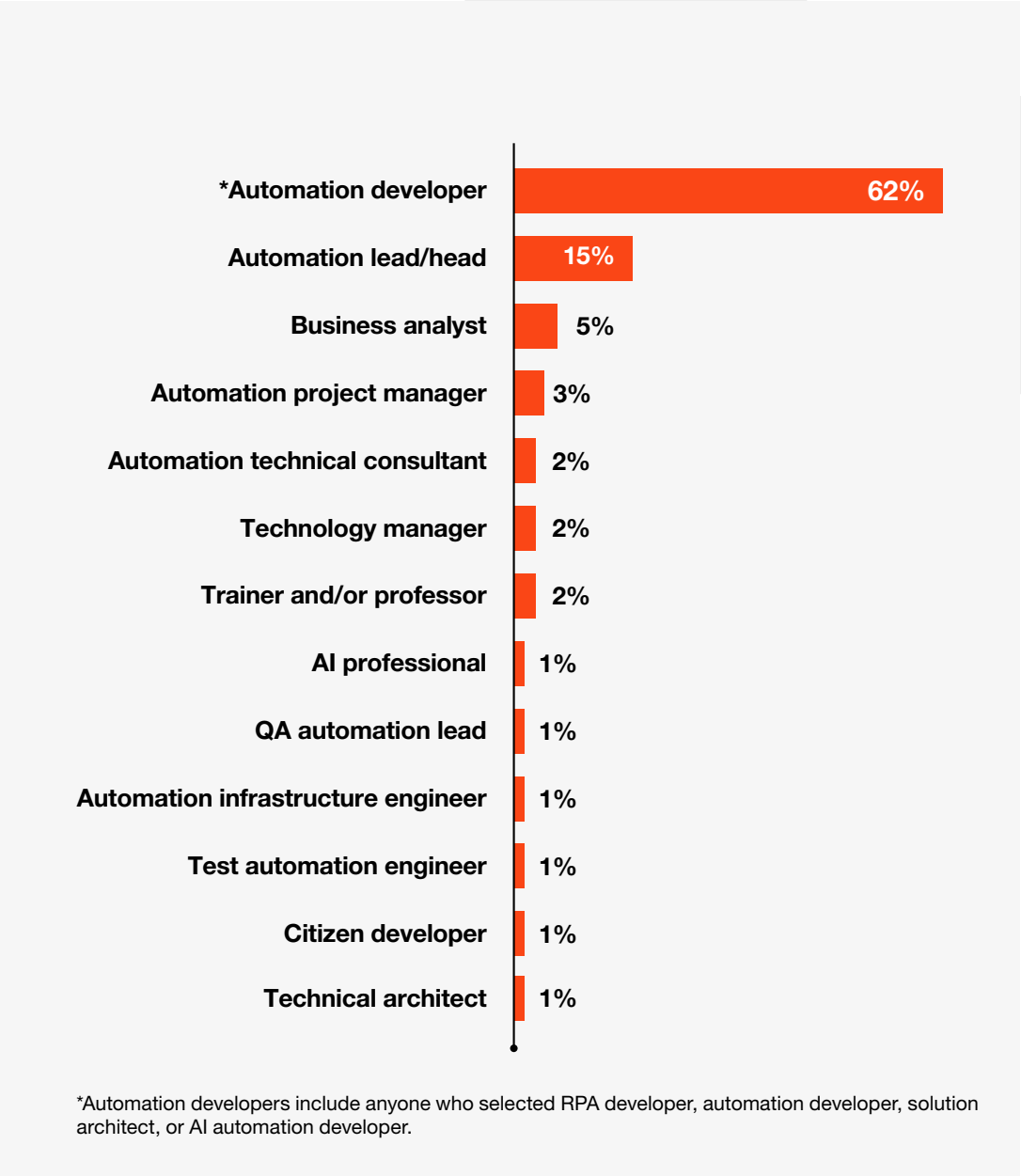
Key learnings from the students are included in the "How students see the automation market" section.

Respondents were recruited primarily through channels owned by UiPath. The main sources of respondents were email lists, blog articles, newsletters, social media, banner ads, and onsite messaging. The data was collected in May and June of 2024.

The UiPath Community is global, and we received responses from all regions. Asia-Pacific and Japan had the highest percentage of respondents, just as we have seen in previous years.

Data notes

• Because of rounded figures, some percentages throughout the report may not add up to 100%.
• Respondents were often given the option to select "unsure." In most cases, the "unsure" responses were removed and the data was recalculated based on the remaining sample size.
• Respondents were sometimes given the option to select "other" and write in a response. For simplicity, these responses were not included in calculating the percentages.

Role	Percentage
*Automation developer	62%
Automation lead/head	15%
Business analyst	5%
Automation project manager	3%
Automation technical consultant	2%
Technology manager	2%
Trainer and/or professor	2%
AI professional	1%
QA automation lead	1%
Automation infrastructure engineer	1%
Test automation engineer	1%
Citizen developer	1%
Technical architect	1%

*Automation developers include anyone who selected RPA developer, automation developer, solution architect, or AI automation developer.

Key findings

01 **The software automation industry continues to grow.** 61% of respondents report their company has increased the number of people working in software automation in the past 12 months—and 81% believe their organization will hire additional automation professionals in the coming year.

02 **Automation professionals have proactively prepared for advancements in AI and are now actively integrating it into their work.** 40% are currently using AI, and another 50% are planning to adopt it. The most commonly used AI technologies are machine learning and generative AI. AI integration is robust, with 81% of automation professionals confirming they use AI in their automation projects at least a few times per week, if not daily. The primary motivation for using AI is increased productivity. Automation developers bring AI into service in various ways: writing code, creating documentation, and testing.

03 **Training is more critical than ever—certifications offer valuable opportunities for professional growth.** 98% of automation professionals have educated themselves this past year. Video tutorials and documentation continue to be the most popular forms of education. While education is strong, there is a slight decrease in automation professionals' intentions to get certified. This represents a missed opportunity, given how many certification options exist and the benefits they bring. It's essential for professionals to have a thorough grasp of automation tools and principles as technology evolves.

04 **Automation professionals are experienced and feel valued.** 71% of developers consider themselves experts in software automation development. Well-versed in other programming languages, developers most commonly know SQL, Python, and .NET. Automation professionals consider themselves critical to the growth of their organizations, especially as technology evolves and AI becomes integrated. 83% believe their organization values the work they do. 80% believe they will have an increasingly important role in the organization in the next year. Additionally, 78% of automation professionals have at least some influence in choosing the technologies they use in their organizations.

Key findings

05

**Automation professionals are satisfied in their careers.** The majority (70%) of automation professionals believe they will remain in the industry for the next five years. Regardless of the path they take, 86% believe their role as an automation professional will have a positive impact on their next career move. Developers report higher levels of satisfaction in the following areas: opportunities for advancement, belonging to a professional community, and the value of using new technology.

06

UiPath is the choice for many reasons, and we see it in usage. Automation developers primarily use UiPath Studio, Robots, Orchestrator, and Document Understanding™. We see a consistent increase in adoption year-over-year for UiPath Automation Ops, Action Center, Integration Service, and Data Service. The three main reasons why automation professionals choose UiPath are: it's easy to learn, has a simple interface, and has a lot of support from the community.
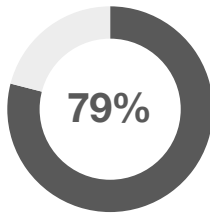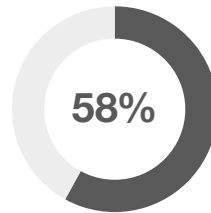
Automation developer profile
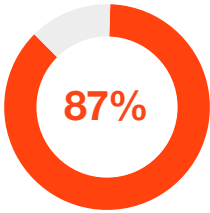
UiPath®
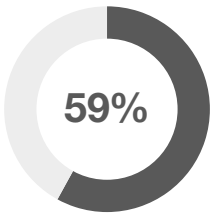
59%
Most common title:
RPA developer

59%
Most common generation:
Millennial

79%
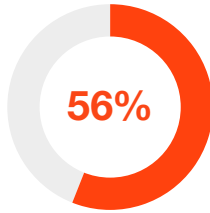Most common gender: **Male**
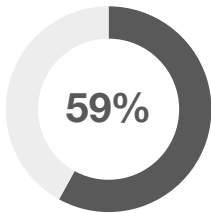
58%
Most common location:
Asia-Pacific and Japan (APJ)
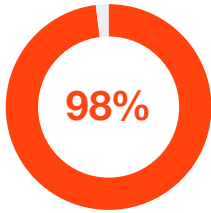
87%
Have a bachelor's degree

98%
Educated themselves in the past year (most commonly through video tutorials, documentation, and forums)

56%
Have a professional software automation certification
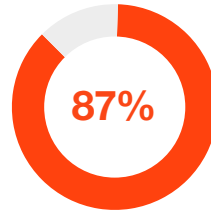
87%
Plan to get a certification in the next year

39%
Use AI in their automation projects

52%
Plan to adopt AI in their automation projects

65%
SQL

53%
Python

50%
.NET

Most common programming languages

96%
UiPath Studio

93%
UiPath Studio Robots

Most common UiPath products used

93%
UiPath Studio Orchestrator

39%
UiPath Studio

33%
UiPath Document Understanding™

33%
UiPath AI Center

Most common UiPath products they want to build expertise in

81%
Believe their position will play an increasingly important role in their organization next year

98%
Satisfied with their career

72%
Believe they will be in software automation for the next 5 years

Trend zone

01 Automation professionals are building automations for a wide range of industries, most commonly for finance, but also including insurance, healthcare, and manufacturing.

Industries for automations

Industry	2020	2021	2022	2023	2024
Finance/Banking	49%	50%	58%	58%	55%
Insurance	25%	26%	30%	36%	33%
Healthcare	23%	25%	30%	35%	37%
Manufacturing	24%	23%	25%	33%	32%
Public Sector	14%	14%	17%	26%	22%
Retail/CPG	17%	17%	17%	25%	25%
Telecom	16%	16%	15%	20%	20%

- 2020
- 2021
- 2022
- 2023
- 2024
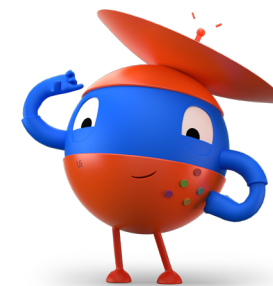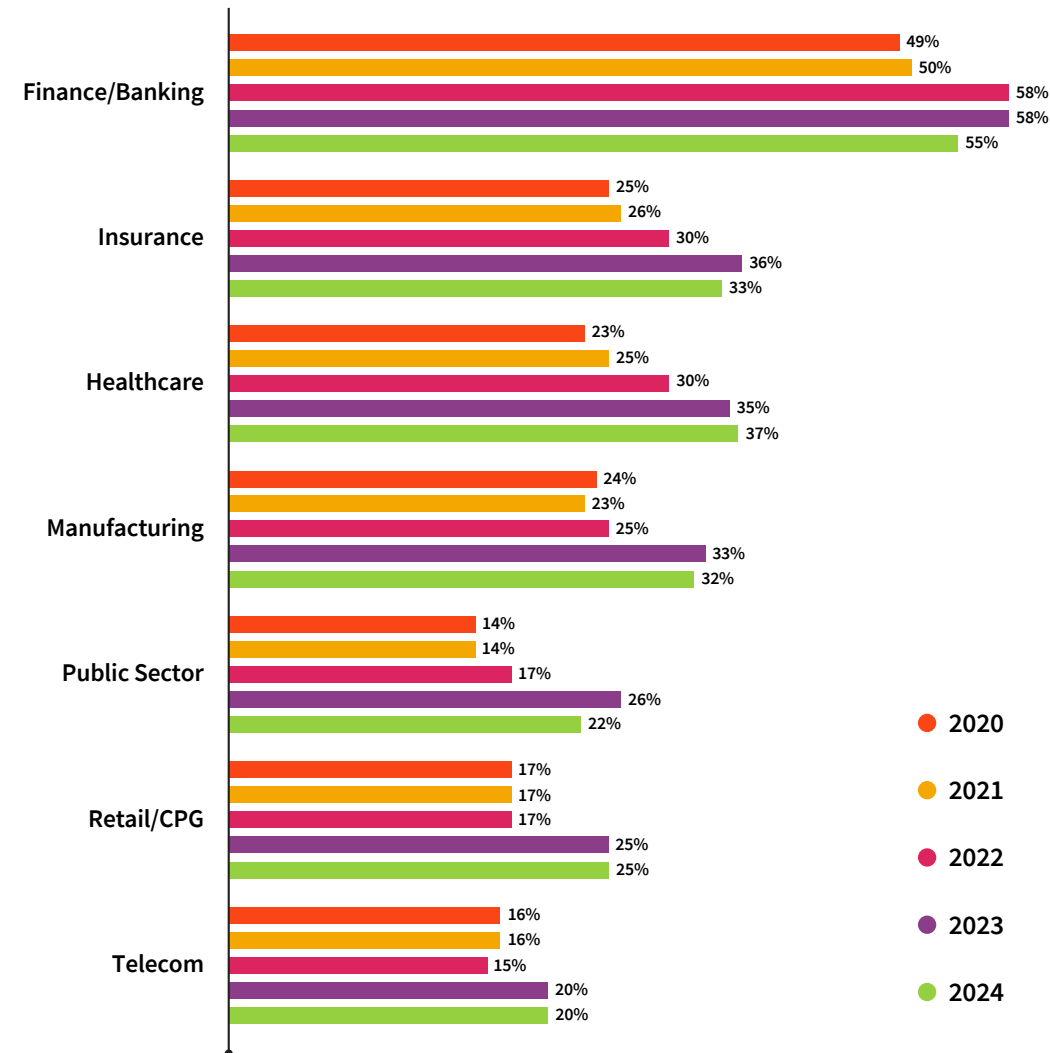
Trend zone

02 Software automation is becoming more mature within organizations.

Organizations that have been using automation for 5+ years.
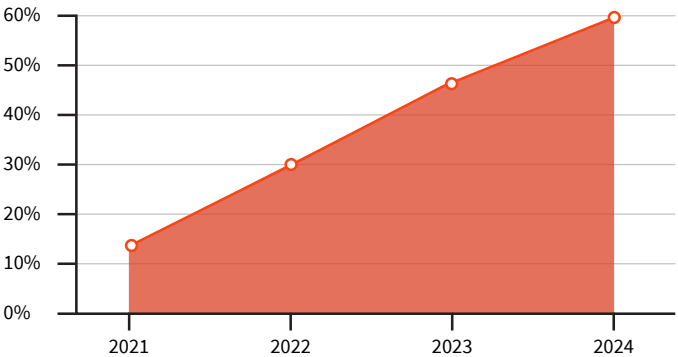
03 Software automation developers are increasingly experienced.

Automation developers with 6+ years of experience.
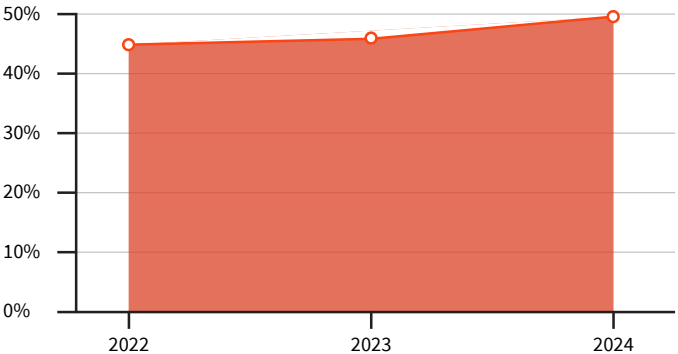
04 Automation developers are feeling increasingly positive about the impact their role will have on their careers.

Automation developers who agree their job as an automation professional will have a positive impact on their next career move.
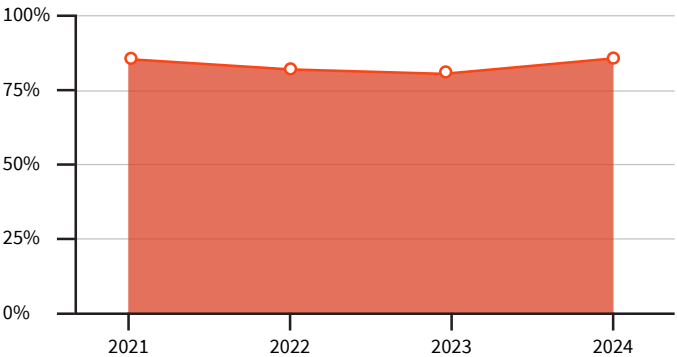
05 Automation developers feel increasingly valued in the organization.

Automation developers who agree their organization values the work they do.
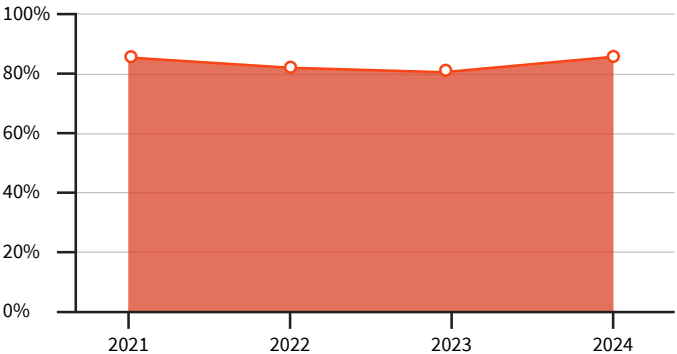
Trend zone

06 More developers report it is easy to move their processes over to UiPath from another tool.

Automation developers who report it is easy to move their automated process to UiPath.

07 This year, we see a decrease in automation developers who say it is easy to transition into their role from another role.

Automation developers who report it is easy to transition into this career from another role.

08 This year, we see a decrease in automation developers who want to stay in their current position.

Automation developers who report they are very satisfied.
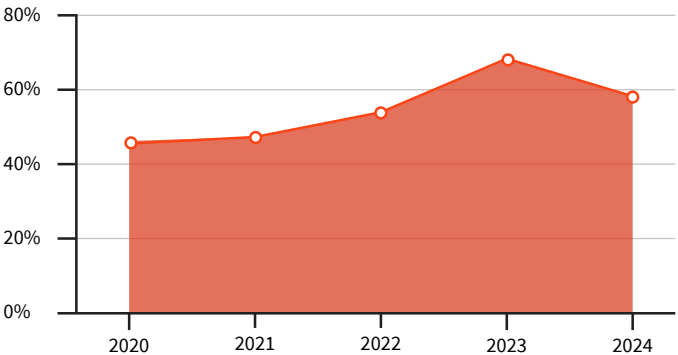
09 This year, we see an increase in automation developers who are unemployed.

Automation developers who report they are unemployed (about 5%).
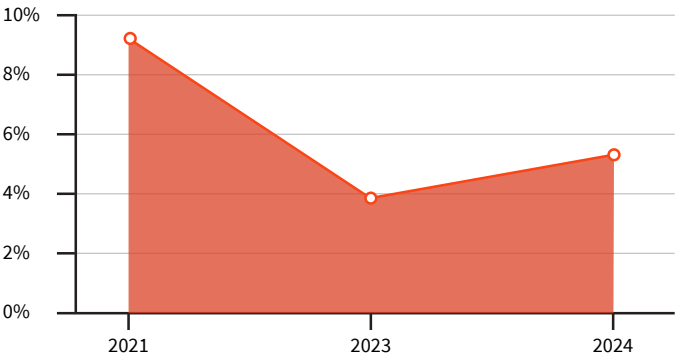
Trend zone

10 This year, a smaller percentage of automation developers feel like they are part of the UiPath Community.

Automation developers who report they feel like they are part of the UiPath Community.
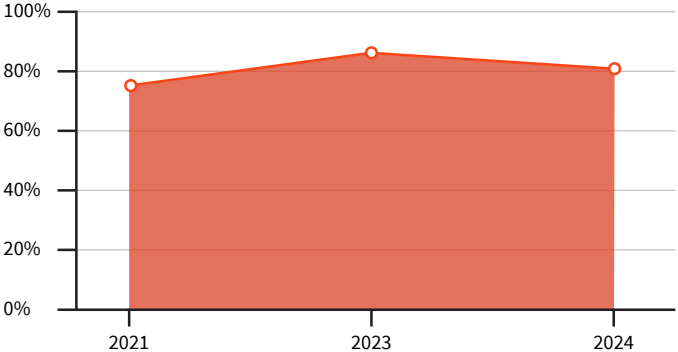
Business automation professional profile

Business automation professional profile

![UiPath logo]

57%
Most common generation: **Millennial**

76%
Most common gender: **Male**

38%
Most common location: **EMEA**

13%
Most common titles: **Business analyst**

12%
RPA developer

11%
Automation CoE leader/manager

98%
Educated themselves in the past year (most commonly through video tutorials, documentation, and online courses)

42%
Have a professional software automation certification

72%
Plan to get a certification in the next year

43%
Use AI in their automation projects

45%
Plan to adopt AI in their automation projects

Most common UiPath products used:

86%
UiPath Robots

84%
UiPath Orchestrator

82%
UiPath Studio

Most common UiPath products they want to build expertise in:

31%
UiPath Document Understanding™

29%
UiPath AI Center

27%
UiPath Studio

95%
Satisfied with their career

80%
Believe their position will play an increasingly important role in their organization next year

64%
Believe they will be in software automation for the next 5 years

Student profile

65%
Most common generation: **Gen Z**

63%
Most common gender: **Male**

65%
Most common location: **APJ**
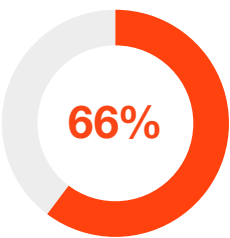
66%
Have a bachelor's degree

20%
Have a professional software automation certification
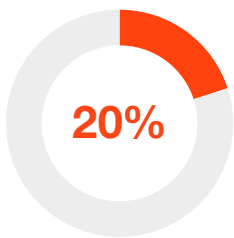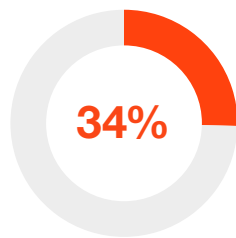
34%
Have taken a college course about software automation
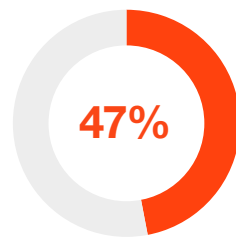
47%
Plan to take a college course about software automation
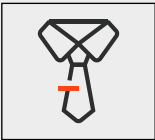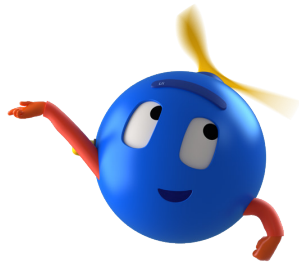
30%
Completed or currently in an internship
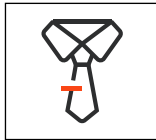
61%
Interested in an internship
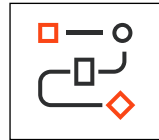
71%
Are considering a job in software automation after graduation

51%
Computer science majors

45%
Engineering majors

15%
Business majors

Demographics

Automation professionals come from a wide range of locations and backgrounds.

Who participated?

![UiPath logo]

Age

As we saw last year, automation professionals are most commonly millennials. We consider millennials to be the automation generation.

What generation are you a part of?

- Baby Boomer — 03%
- Generation X — 18%
- Generation Z — 21%
- Millennial — 58%
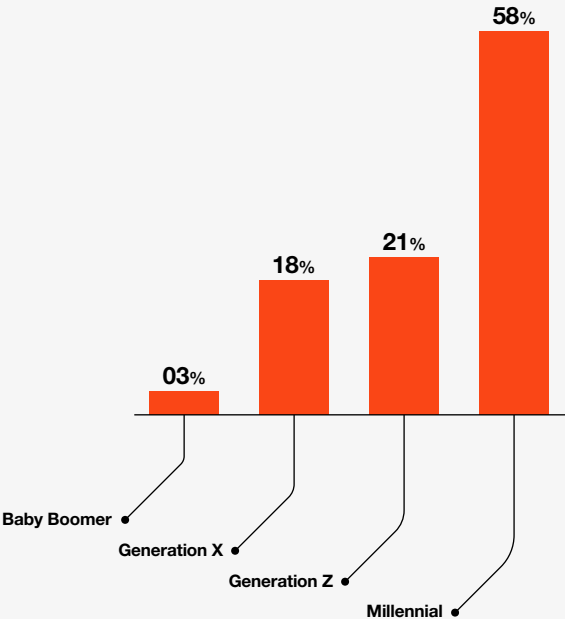
Gender

78% of automation professionals are male, which is similar to what we saw last year.

What is your gender identity?

78% Male

22% Female

Geographical presence

EMEA

29%

AMER

20%

APJ

51%

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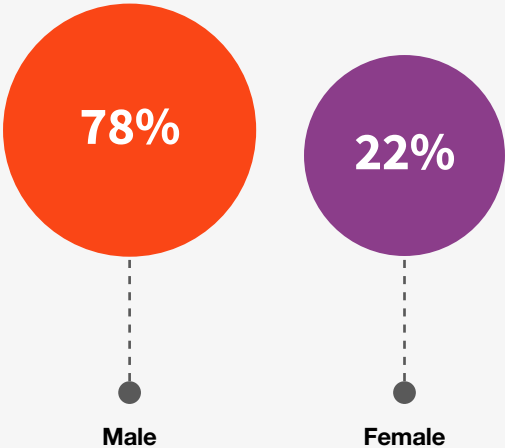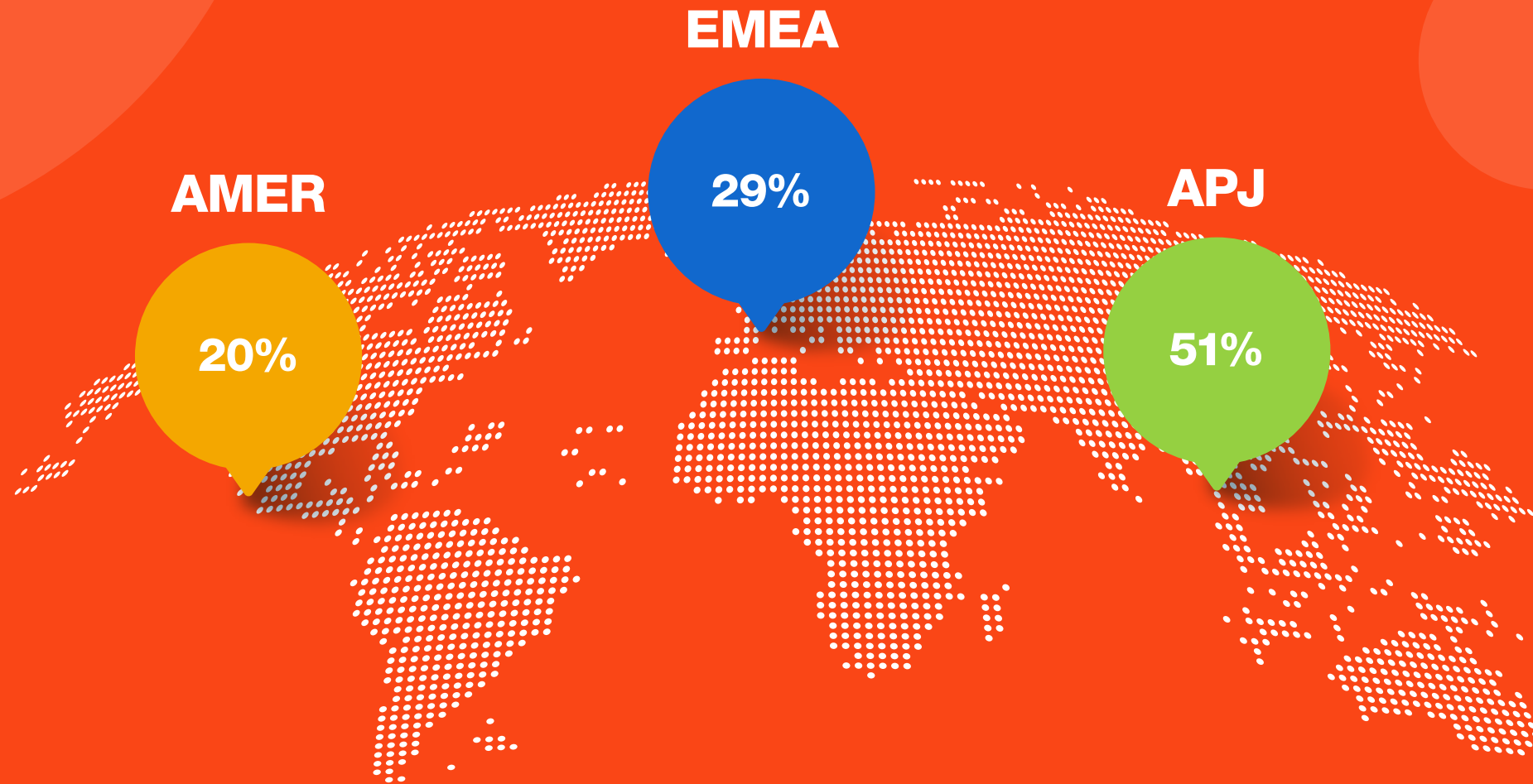
Who participated

Who participated?

Type of company

As we see each year, the majority of automation professionals work in-house, and this is becoming even more pronounced. This year, 55% of respondents report they work in-house, compared to 50% last year.

Which of the following best describes your current work situation?

I work on software automation in-house for my organization	**55%**
I support client(s) with software automation as part of a consulting firm	**37%**
I am an independent freelancer	**3%**
I am currently unemployed	**3%**
Other	**2%**
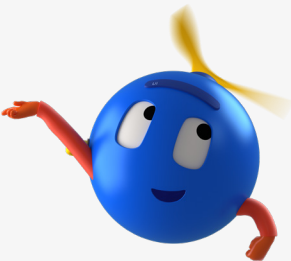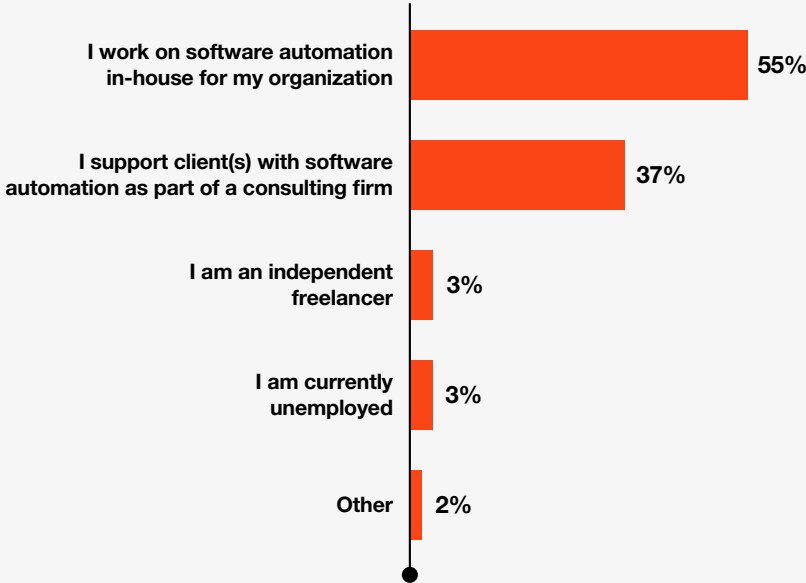
Who participated?

Number of employees

Just as we saw last year, approximately half of the respondents work for a company with at least 2,500 employees.

How many employees does your organization have across all locations?

- 1-9 — 5%
- 10-99 — 10%
- 100-499 — 15%
- 500-2,499 — 17%
- 2,500-9,999 — 19%
- 10,000-49,999 — 15%
- 50,000+ — 19%

Who participated?

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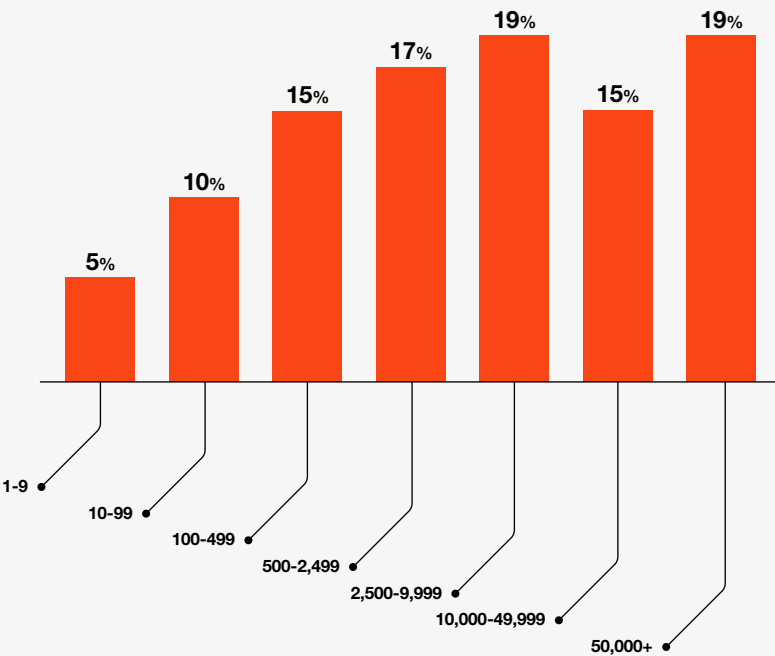
Years of work experience

As we see each year, those who work in automation range from newly employed to experienced. Almost half (47%) of business professionals have 11+ years of experience, compared with 23% of developers.

How many years of work experience do you have?

Less than 1 year	7%
1-2 years	13%
3-5 years	25%
6-10 years	24%
11-15 years	10%
More than 15 years	21%
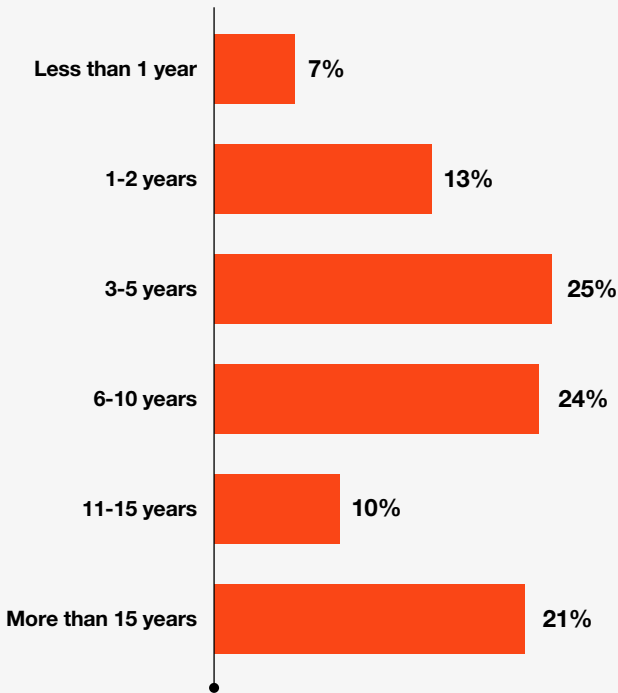
Years of experience with automation development

Automation professionals are increasingly experienced in their field. This year, 68% say they have at least three years of experience with software automation, compared to 63% last year.

How many years of experience do you have with developing and/or supporting software automation?

Less than 1 year	10%
1-2 years	22%
3-5 years	36%
More than 5 years	32%
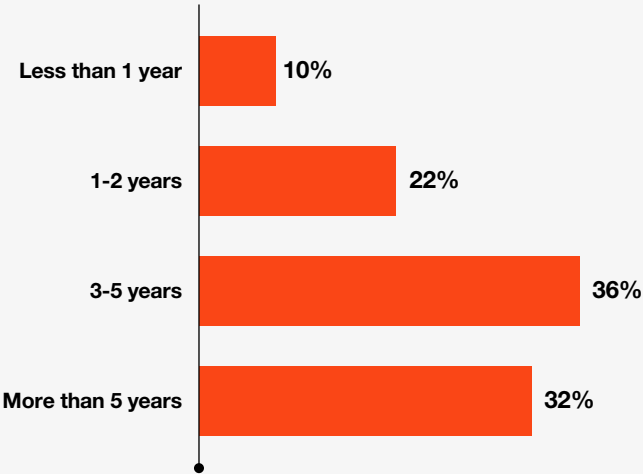
Software automation in the organization

Get insights into how organizations are staffing their automation teams and how they are deciding what to automate.

Automation is maturing in organizations.

Organizations' experience with software automation

This year, 60% report their organization has used software automation for 5+ years, compared to 47% last year.

How long has your organization been utilizing software automation?

5%	Less than 1 year
11%	1-2 years
24%	3-4 years
31%	5-6 years
29%	5+ years
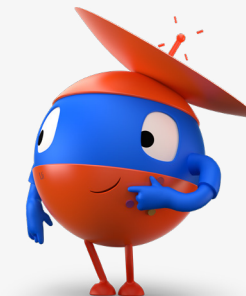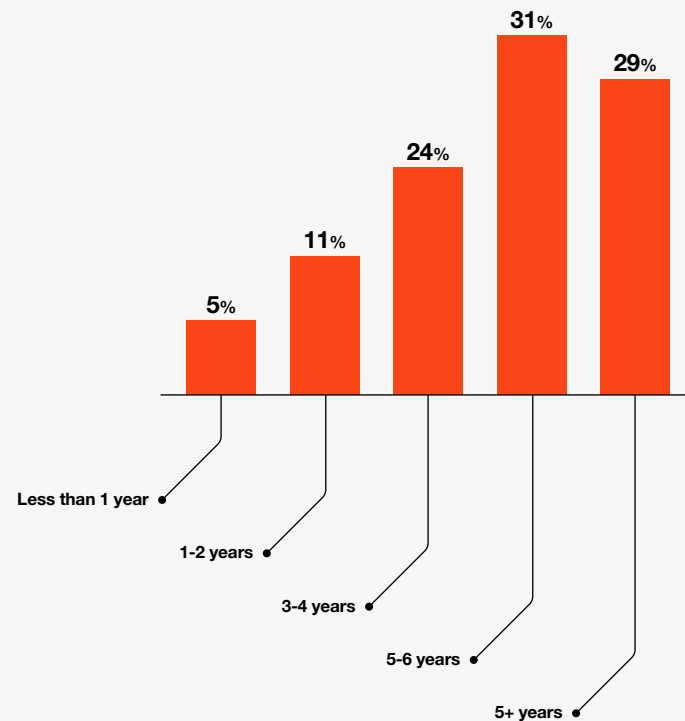
Automation is maturing in organizations.

What are organizations automating?

The majority (95%) have a process in place to decide what to automate, but those processes differ.

How does your organization decide which processes to automate?

Response	Percentage
We automate existing processes based on specific requests from employees or customers	66%
We assess existing processes based on their potential ROI and prioritize automation efforts accordingly	64%
We design new processes from scratch with automation in mind	34%
We use a mix of AI-powered tools and manual assessments to identify automation opportunities	16%
We use AI-powered tools to help us discover automation opportunities across the organization	13%
We do not have a formal process for deciding which processes to automate	5%

Developers are building automations for a variety of industries.

Automations by industry

Finance and banking continue to be the most common industries for which developers are building automations.

For which industry are you building automations?

Industry	2020	2021	2022	2023	2024
Finance/Banking	49%	50%	58%	58%	55%
Insurance	25%	26%	30%	36%	33%
Healthcare	23%	25%	30%	35%	37%
Manufacturing	24%	23%	25%	33%	32%
Public Sector	14%	14%	17%	26%	22%
Retail/CPG	17%	17%	17%	25%	25%
Telecom	16%	16%	15%	20%	20%
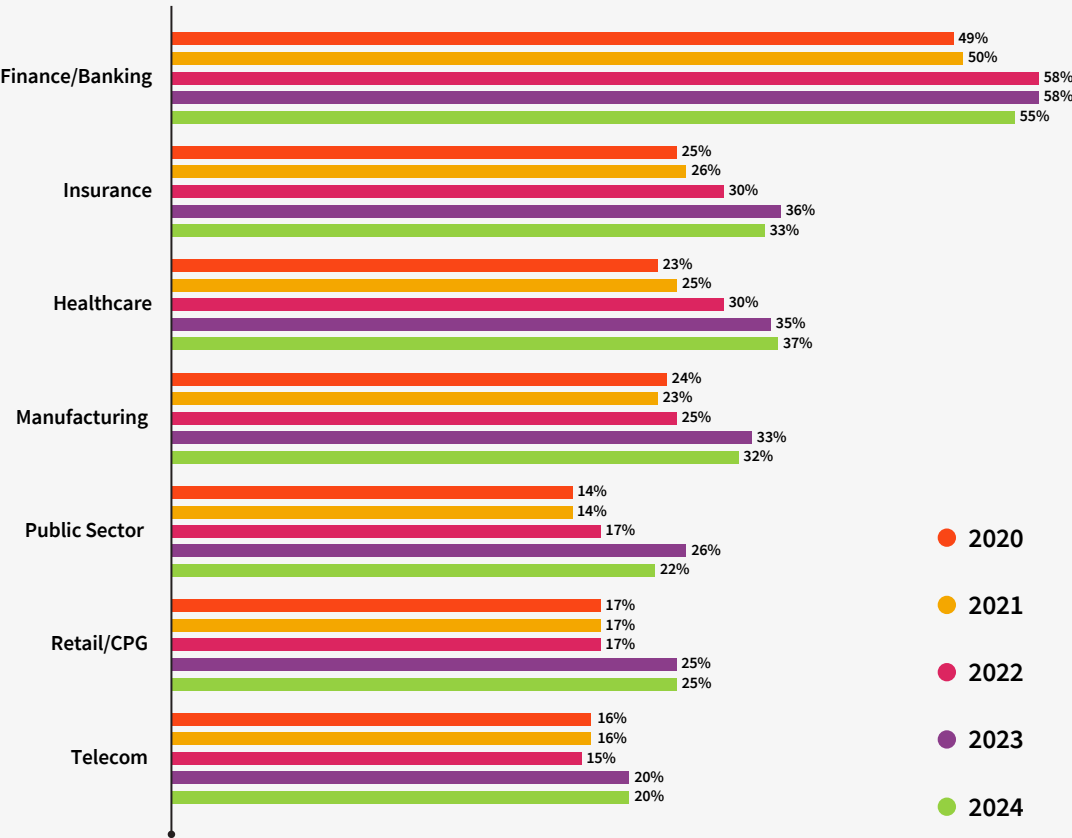
Developers are building automations for a variety of industries and departments.

Automations by department

As we saw last year, developers are creating automations for a range of departments, most commonly accounting and finance. Compared to last year, more developers are creating automations for contact center/CX, whereas fewer developers are creating automations for supply chain and legal/compliance.

Which department have you created automations for in the past 12 months?*

Department	Percentage
Accounting and finance	67%
IT	53%
Operations	51%
HR	39%
Supply chain	26%
Contact center and customer	24%
Legal and compliance	17%
QA and testing	17%
Marketing	16%
Other	6%
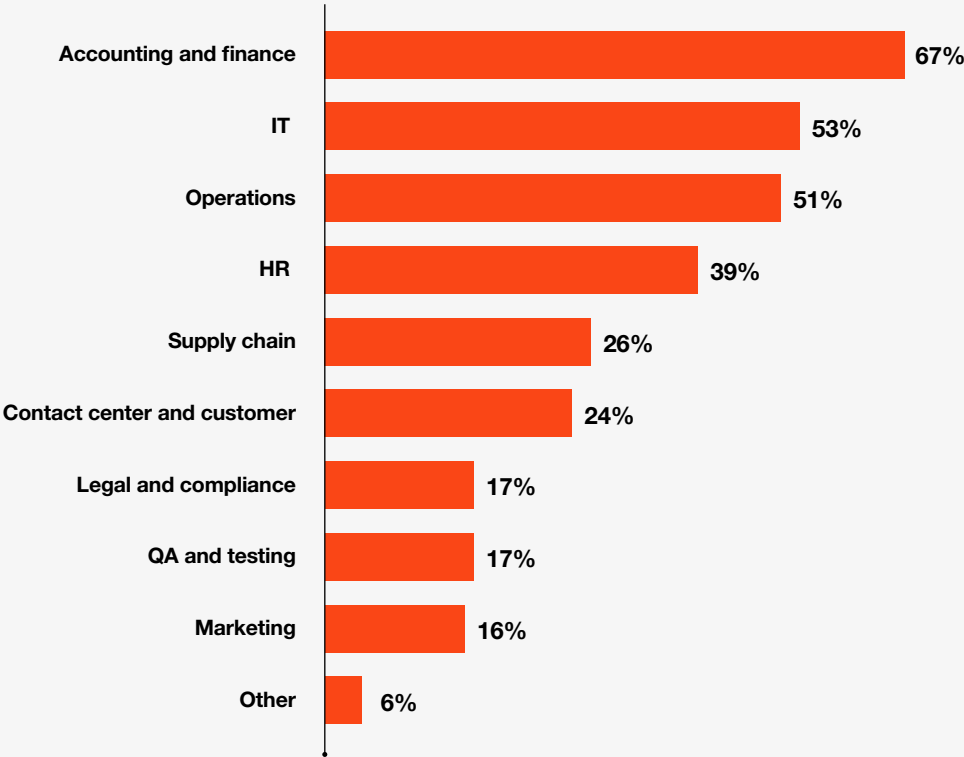
*Answered by developers only

Half of organizations have at least 25 automation professionals.

Number of automation professionals

Just as we saw last year, half of respondents report they have at least 25 people working in software automation at their company.

How many people are working in software automation at your company?

>250 20%

1-24 48%

25-250 32%
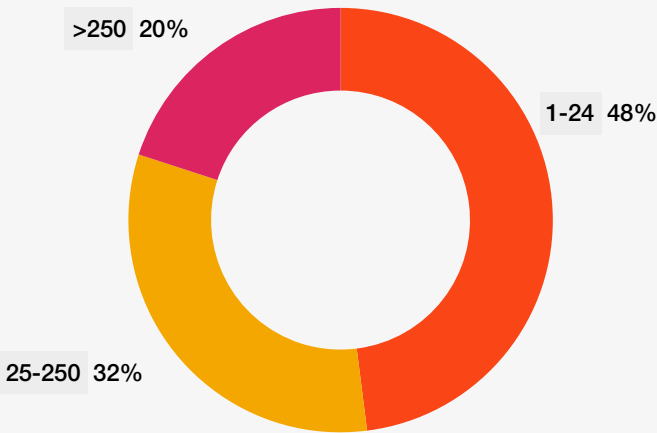
Number of automation developers

43% of respondents have at least 25 automation developers at the company, which is similar to what was reported last year.

More specifically, approximately how many automation developers work at your company?

>250 16%

1-24 57%

25-250 27%
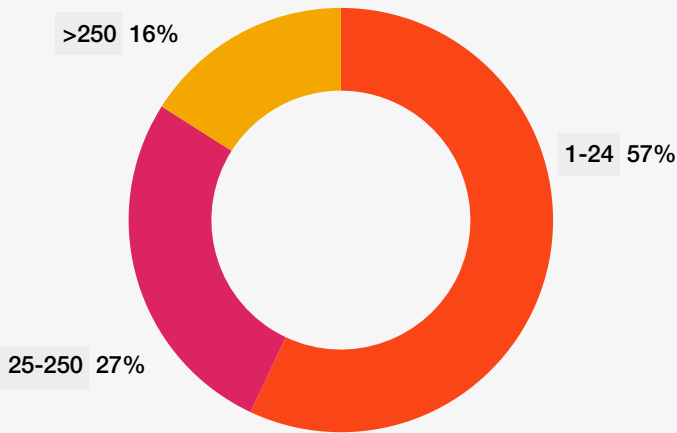
Automation teams continue to grow.

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Team growth over the past 12 months

61% of the respondents report their company has increased the number of people working in software automation in the past 12 months. While this number is lower than what we saw last year (68%), growth continues to be strong.

How has the number of employees working in software automation at your company changed in the past 12 months?

61%

of respondents report their company has increased the number of people working in software automation in the past 12 months.

Probability of hiring

Another signal of growth: 81% believe their organization will hire additional automation professionals in the coming year. Developers are more likely than business professionals to report their organization will "definitely" hire.

Do you expect your organization will hire more automation professionals in the next 12 months?

Likely - 46%

Definitely - 35%

Not Likely 19%
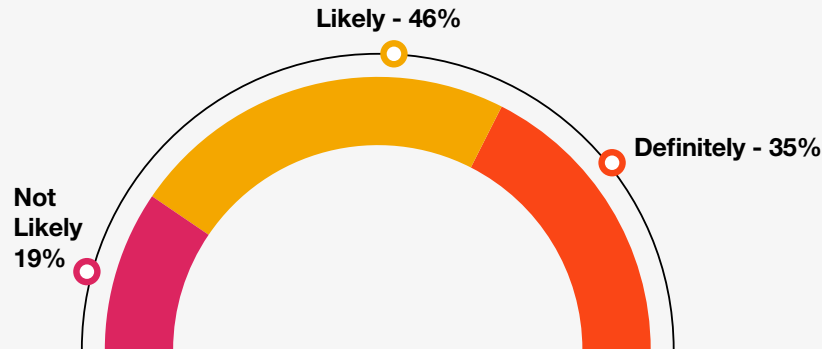
Life as an automation professional and job satisfaction

Learn how automation professionals are educating themselves, what their day-to-day looks like, and how satisfied they are with their careers.

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Automation professionals are transitioning into this work from other roles.

Transition into role

More than half of the respondents report they transitioned into automation from other roles. However, business professionals are much more likely than other respondents to report they came from a different role.

Is your job as an automation professional your first professional role?

59%

of respondents reported transitioning into automation from other roles.

Difficulty of transition

While 58% of developers who transitioned into their roles report it was easy, this is lower than what we saw last year. It may be more difficult for some developers to make the transition because the roles are becoming more complex. This complexity might come from the need for a better understanding of the latest developments in AI and integration with available connectors.

How easy or difficult was it to transition into your role as a software automation developer?*

Neither difficult nor easy
24%

Moderately easy
35%

Moderately difficult
16%

Very easy
23%

Very difficult
2%

*Answered by developers only
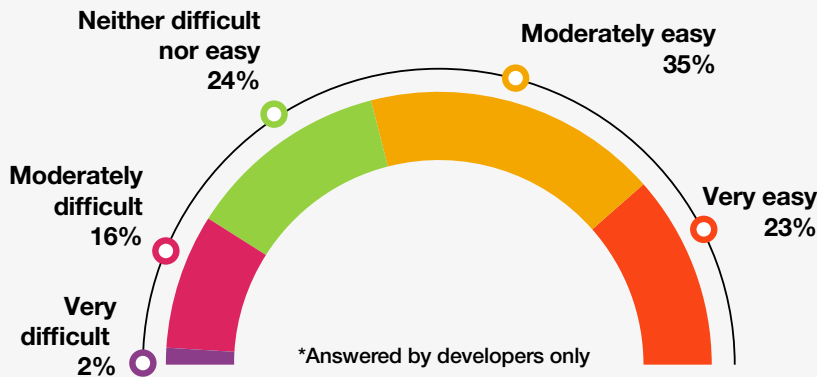
Education is essential as automation professionals transition into new complex roles.

Opportunities for continued education

98% of automation professionals have educated themselves in the past year. Video tutorials and documentation continue to top the list, while self-paced online courses are being used less often. 33% report using AI engines and 20% report using social media video reels (both new options for 2024).

How have you educated yourself about software automation in the past 12 months?

Category	Percentage
Video tutorials	62%
Documentation	56%
Self-paced online courses	50%
Online forums	49%
Virtual training	39%
Webinars	38%
AI engines	33%
Tech conferences	23%
Blogs/newsletters	22%
Social media videos, reels	20%
Local and virtual meetups	19%
In-person training	17%
Learning in small communities or groups of friends	17%
Mentorship	13%
Books	13%
Podcasts	7%
I haven't educated myself in the past 12 months	2%
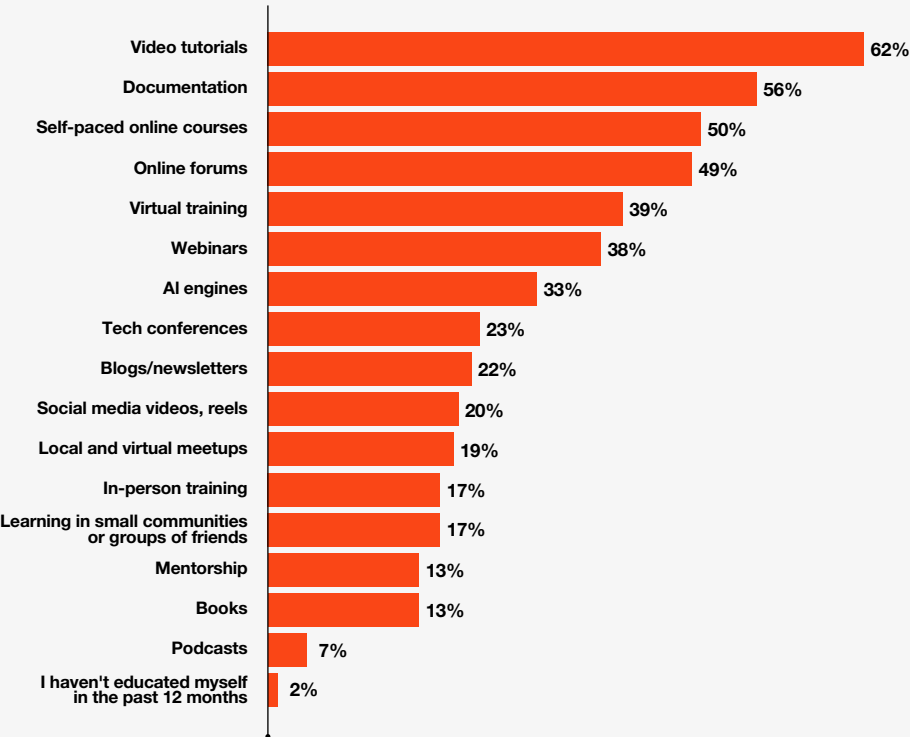
The majority of automation professionals plan to get a certification this coming year.

UiPath®

Prevalence of certifications

About half of the respondents report they have a professional software automation certification, which is down from last year (57%). Considering the fast pace of change, certifications are more vital than ever.

Do you have a professional software automation certification?

52% report having a professional software automation certification
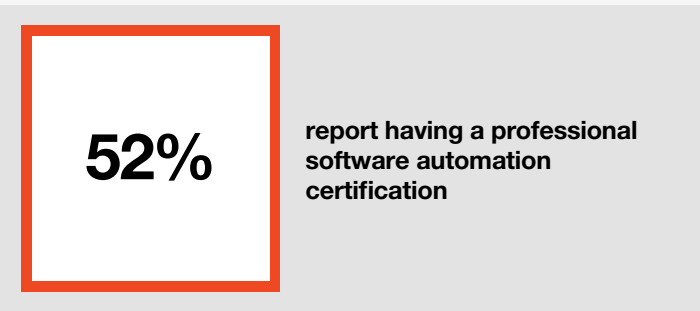
Plans for certifications

82% of automation professionals plan to get a certification in the next 12 months. Most commonly, they plan to get the UiPath Certified Professional Automation Developer Professional certification.

What certification do you plan to get within the next 12 months, if any? (Top 3)

37%

33%

25%

UiPath Certified Professional Automation Developer Professional

UiPath Certified Professional Specialized AI Professional

UiPath Certified Professional Automation Developer Associate
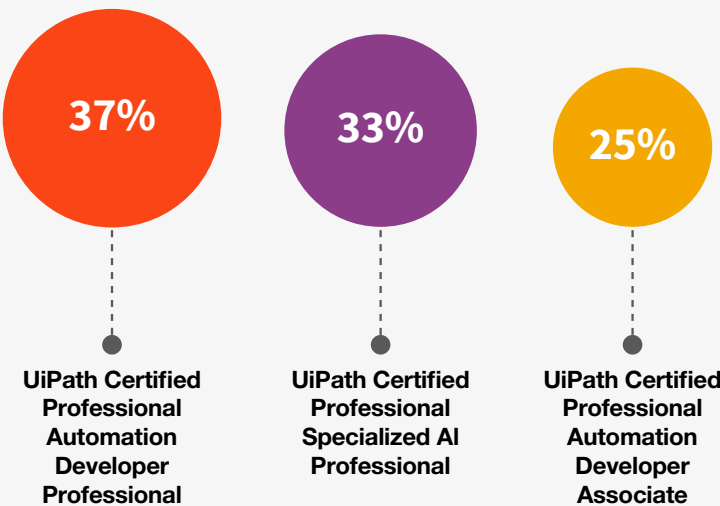
The types of UiPath certifications completed by automation professionals.

UiPath certifications

Of those who have a certification from UiPath, the most common one is the UiPath Certified Professional Automation Developer Professional.

What certification do you have from UiPath?

Certification	%
UiPath Certified Professional Automation **Developer Professional**	58%
UiPath Certified Professional Automation **Developer Associate**	45%
UiPath Certified Professional Automation **Business Analyst Professional**	11%
UiPath Certified Professional Specialized **AI Professional**	7%
UiPath Certified Professional Automation **Solution Architect Professional**	7%
UiPath Certified Professional Test **Automation Engineer Professional**	2%

Automation professionals are experienced, and developers are well-versed in other programming languages.

Proficiency

71% of developers consider themselves to be advanced/expert in software automation development, which is similar to what we saw last year.

How proficient are you at software automation development?*

Advanced
41%

Intermediate
20%

Expert
30%

Beginner
9%

*Answered by developers only
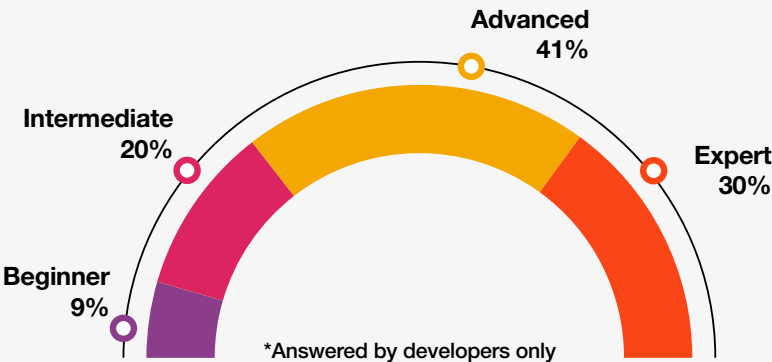
Additional programming languages

In addition to RPA, developers most commonly know SQL, Python, and .NET.

In addition to RPA, which programming languages do you know? (Top five)*

65% — SQL

53% — Python

50% — .NET

46% — VB/VBA

45% — C#

*Answered by developers only
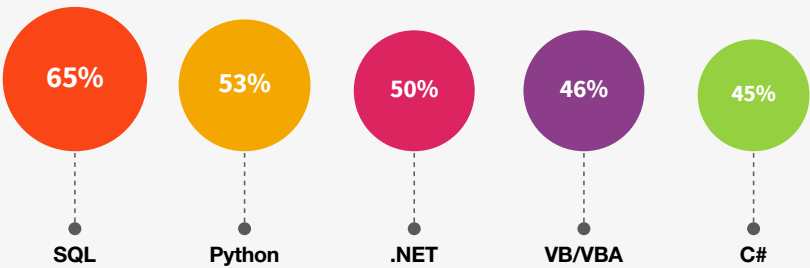
The types of activities automation developers perform have been shifting over time.

What developers work on weekly

Each year, we see a shift in the types of activities developers are working on. Since last year, fewer respondents report they are performing code reviews and documenting implemented solutions.

Which of these activities do you work on at least weekly? (Top 5)*

Activity	
Build automation solutions based on requirements	78%
Maintain, support, and debug automation solutions in production	68%
Test automation solutions	48%
Create documentation	47%
Perform code review	44%
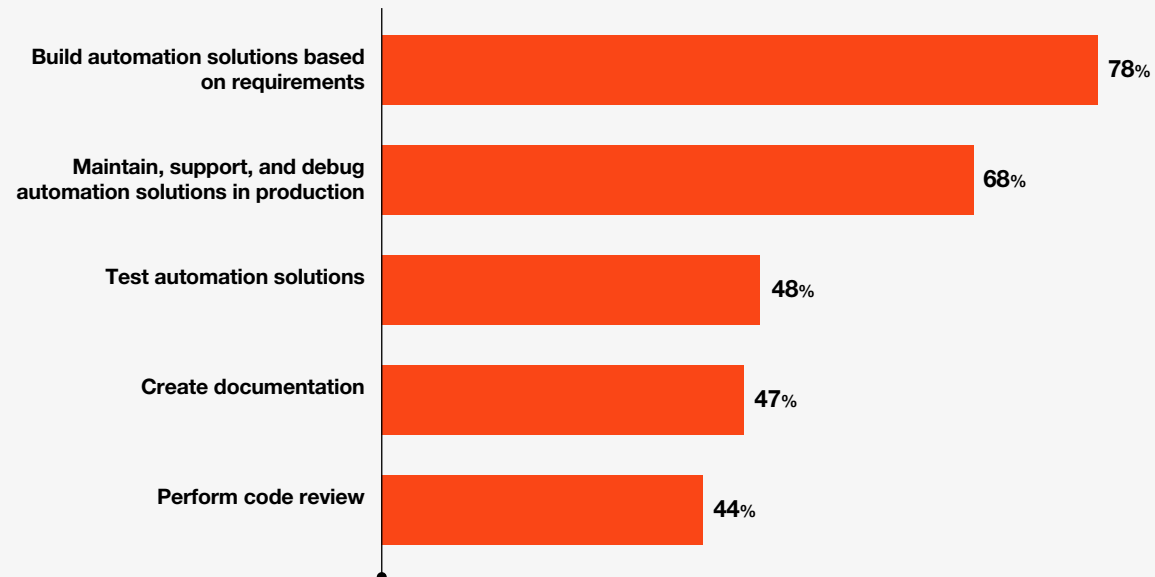
*Answered by developers only

Automation professionals struggle with documentation and variations in their processes.

Biggest frustrations

Compared to last year, more automation professionals are struggling with incomplete/inaccurate documentation, too many process variations, and complex business workflows.

What are your biggest frustration(s) in achieving good work/automations?

Frustration	Percentage
Documentation is incomplete or inaccurate	45%
There are too many variations of the process	41%
It's difficult to get what I need from business	36%
I get asked to automate processes that aren't optimized or suitable for automation	35%
Business workflows are too complex	23%
I have too much work to do	12%
It's hard to stay up to date with latest AI technologies and integrations	12%
It's hard to stay up to date with automation products	9%
I lack adequate training	7%
None of the above	5%

Influence over selecting technology.

Ui|Path®

Influence over selecting technology

78% of automation professionals have influence over choosing the technologies they use at work, which is slightly higher than what we saw last year.

Do you have influence over selecting the software automation technologies?

I have some influence - 43%

I have a great deal of influence - 35%

I have little or no influence - 22%
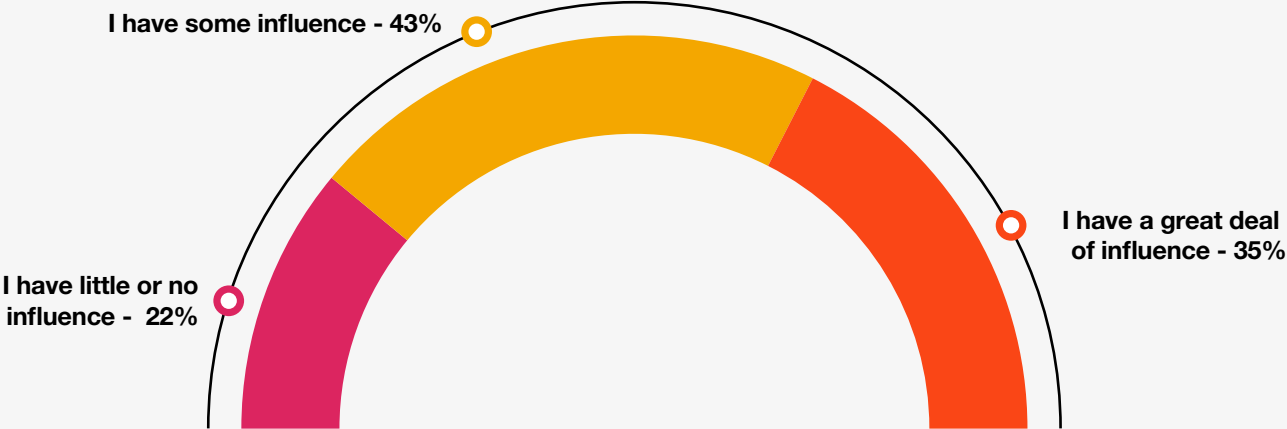
Automation professionals think their jobs will have a positive impact on their careers.

Industry's growth potential

Software automation professionals overwhelmingly (84%) think the industry has a high potential for growth, which is similar to what was reported last year.

I think the software automation industry has a high potential for growth over the next three years.

Response	Percentage
Strongly agree	51%
Agree	33%
Neutral	13%
Disagree	2%
Strongly disagree	1%
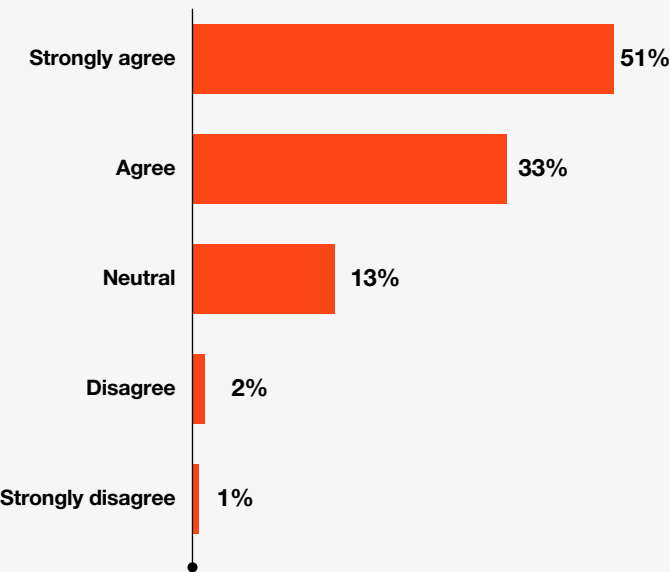
Career impact

Automation professionals increasingly believe their job will have a positive impact on their next career move (86% in 2024 compared to 81% in 2023).

My job as an automation professional will have a positive impact on my next career move.

86% of automation professionals increasingly believe their job will have a positive impact on their next career move
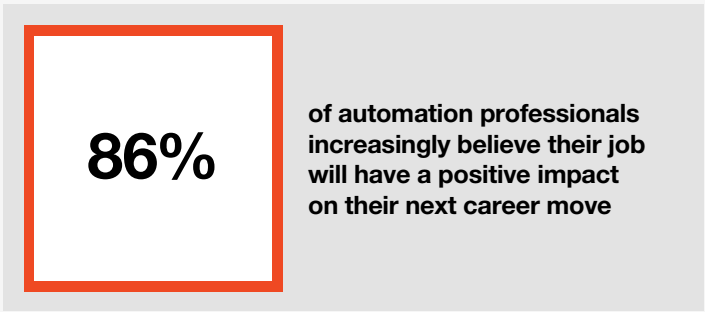
Automation professionals are satisfied with their jobs and intend to remain in the industry.

Career satisfaction

96% of the automation professionals continue to feel satisfied with their careers. Developers are more likely than business professionals to report feeling very satisfied.

How satisfied are you with your career as an automation professional?

Somewhat satisfied
37%

Very satisfied
59%

Not satisfied
4%
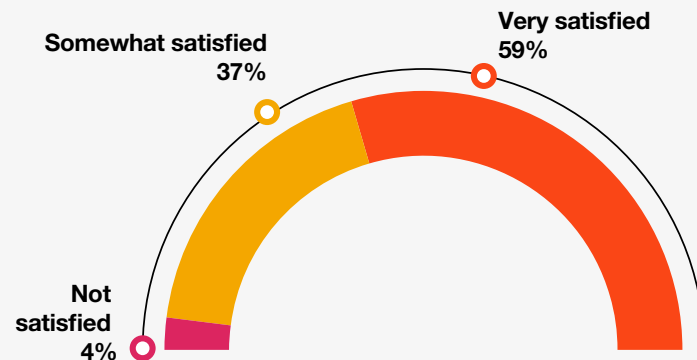
Likelihood of remaining in software automation

Considering the high level of satisfaction, it comes as no surprise that the majority of automation professionals believe they'll remain in this industry for at least five years. Developers are even more optimistic, with 72% reporting they believe they will stay, compared to 64% of business professionals.

Do you think you will be in software automation for at least the next 5 years?

70%

7%

23%

Yes

No

Unsure
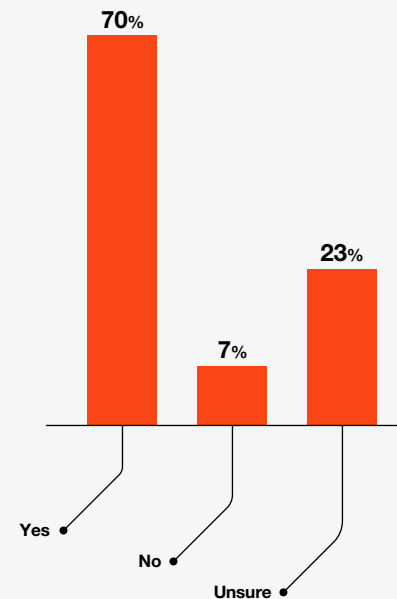
Automation professionals are generally satisfied with most aspects of their career.

![UiPath®]

Satisfaction with all aspects of career

Automation professionals are highly satisfied with their career choice, but it's also useful to see how they feel about specific areas of their career. Automation professionals are most satisfied with leadership trusting them to do their job, their flexible work schedule, and their opportunity to use new technology.

Compared with business professionals, developers report higher levels of satisfaction in the following areas:

• Opportunities for advancement

• Belonging to a professional community

• Using new technology

• Having an impact

Consider the following benefits. How satisfied are you in each of these areas in your current role as an automation professional? (Percentage who are very satisfied)

Leadership trusts me to do my job	63%
Flexible work schedule	60%
Getting to learn and use new technology	53%
Having an impact	47%
Belonging to a professional community	44%
Opportunities for career advancement	43%
Bonuses and other financial compensation	35%
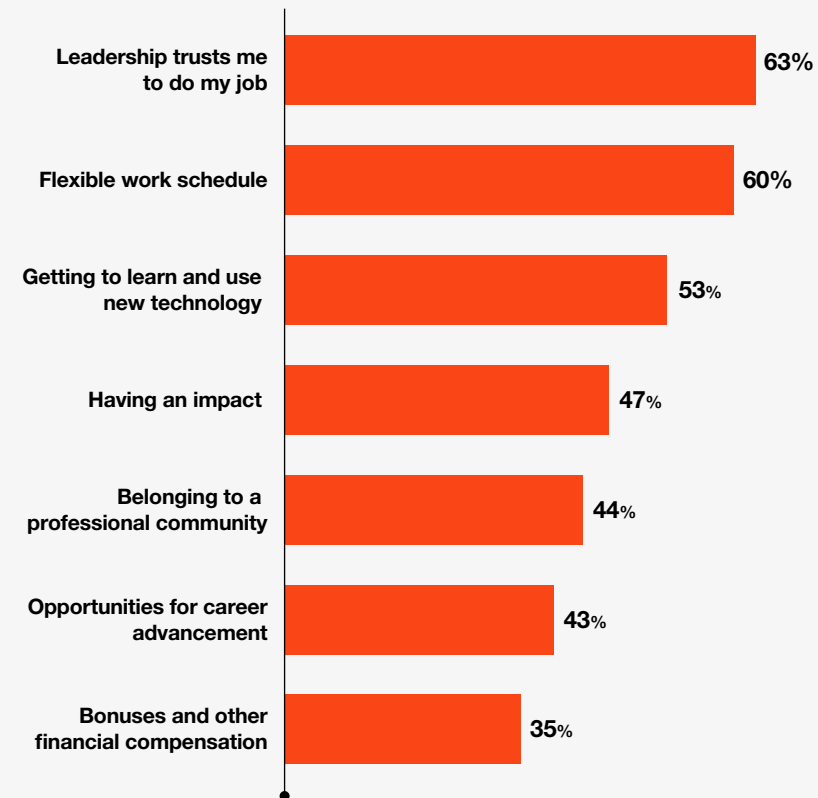
Automation professionals recommend their career.

UiPath®

Likelihood of recommending career

This year's net promoter score (NPS) for the automation profession is 37, compared to 47 last year, for recommending the career, irrespective of the company or position.

Themes from promoters	Themes from detractors
The career is dynamic and there are opportunities to work on cutting-edge technologies.	It's difficult to keep up with the rapid changes in technology.
Automation has economic benefits because it improves productivity.	The skill set needed for this work is broad and there is too much to know.
Automation enables people to work on complex, more valuable tasks.	The job market is shrinking and/or its difficult to find jobs.
Automation is key to ongoing digital transformation.	AI might replace traditional automation jobs.
The field is accessible and rewarding, with ample resources to help newcomers get started and succeed.	RPA skills may not be transferable to other industries.
There is always something new to learn—and there are continuous opportunities for training and certifications.	Working environment has its frustrations, such as low salaries and lack of management understanding.
This career allows professionals to interact with various departments, stakeholders, and processes, enhancing their knowledge and networking opportunities. This broad exposure contributes to personal and professional growth.	Field requires a steep learning curve.
The demand for automation professionals is rapidly growing, creating diverse opportunities and competitive salaries.	Improvements are needed with training and certification.

Automation professionals have an important role within the organization.

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Developers' importance in the organization

New this year, we asked automation professionals if they believe their role will grow in importance within their organization. 81% of developers and 80% of business professionals agreed with this sentiment.

Automation developers will have an increasingly important role in the organization in the next year.

81%   **of automation professionals** believe their role will grow in importance within their organization.

Automation professionals feel valued.

![UiPath logo]

Value to the organization

Automation professionals feel increasingly valued. 83% believe their organization values the work they do, compared to 75% last year.

My organization values the work I do as an automation professional.

83% of automation professionals believe their organization values the work they do and feel increasingly valued.

Interest in a new job

Each year, we ask automation professionals if they are looking for a new job. This year, slightly more respondents are looking for or are open to a new job (69% this year compared to 65% last year). We hypothesize this shift could be happening because the market is expanding and new roles are emerging. Developers are more likely than business professionals to be looking for a new job.

Do you plan to look for a new job in the next 12 months?

I'm not actively looking but open to new opportunities in software automation	37%
I'm actively looking for a job in software automation	32%
I'm not interested in a new job	27%
I want to find a job in another industry	4%
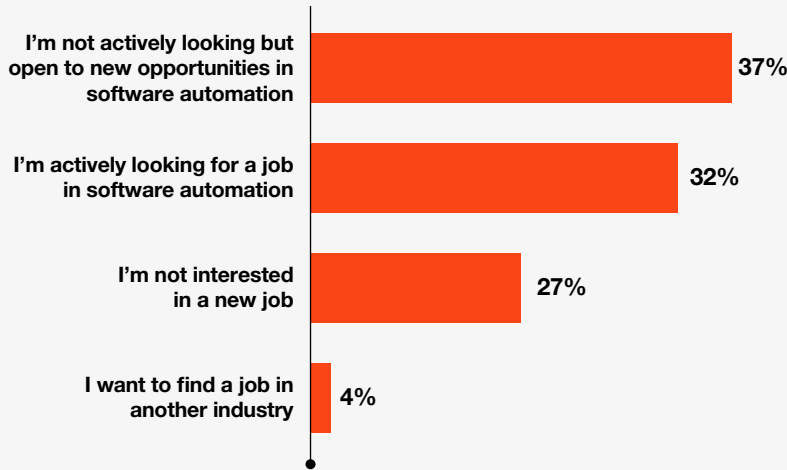
Impact of AI on enterprise automation

Automation professionals have prepared for advancements in AI and are now actively integrating it into their work and experiencing its benefits. Get a deeper dive into how AI is being used in conjunction with automation development.

This year, we dug into more specifics about how automation professionals are using or are planning to use AI in their processes.

Interest in AI

Automation professionals have a lot of interest in AI tools in automation development. 40% are currently using AI tools and 50% plan to.

Do you currently use AI tools in your automation development processes?

No, but I plan to
50%

Yes
40%

No, and I don't plan to
10%
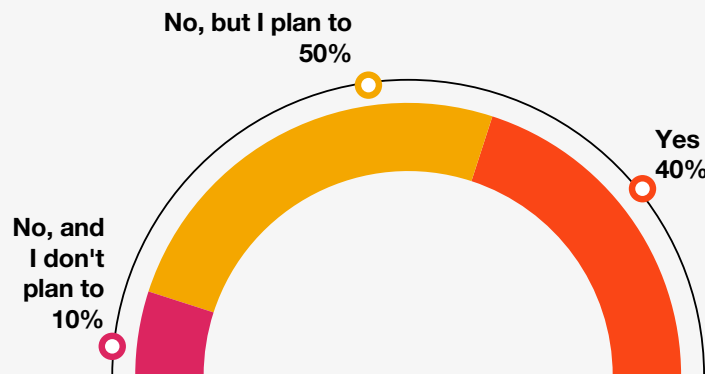
AI-based technologies

Most commonly, those using AI rely on machine learning and generative AI for automation projects.

What AI-based technologies are you using for your automation projects?*

Technology	Percentage
Machine learning	68%
Generative AI	61%
Computer vision	47%
Natural language processing	37%
Semantic analysis	9%
Other	1%
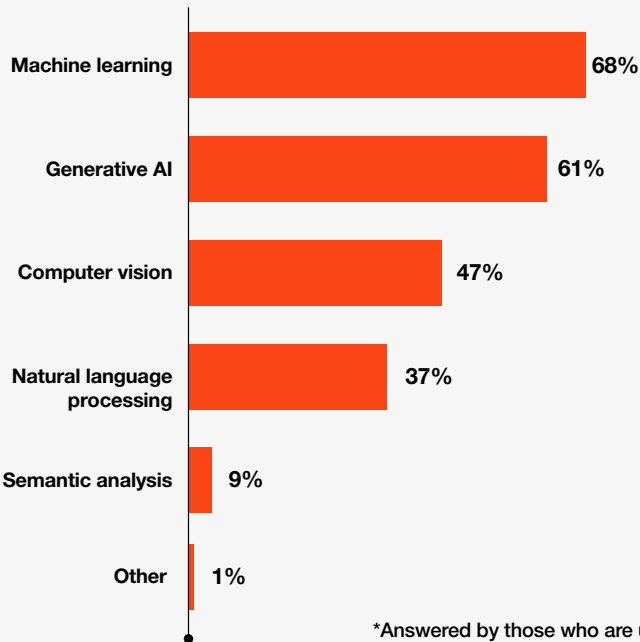
*Answered by those who are using AI tools

Widespread use of AI products to support automation.

AI products to support automation

ChatGPT and UiPath are in high demand, and AI engines such as GitHub Copilot, Amazon Web Services (AWS) AI, and Google Cloud AI are also being adopted.

What specific AI products do you use to support your automation projects?*

Product	Percentage
ChatGPT	70%
UiPath	67%
RPA tools other than UiPath	33%
GitHub Copilot	21%
Custom-built AI solutions	19%
Amazon AWS AI services	14%
Google Cloud AI Platform products	11%
SAP AI solutions	6%
IBM Watsonx Assistant	4%
Salesforce Einstein	3%
Oracle AI products	2%

*Answered by those who are using AI Tools
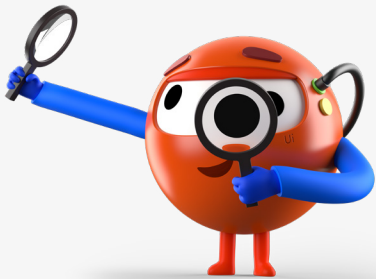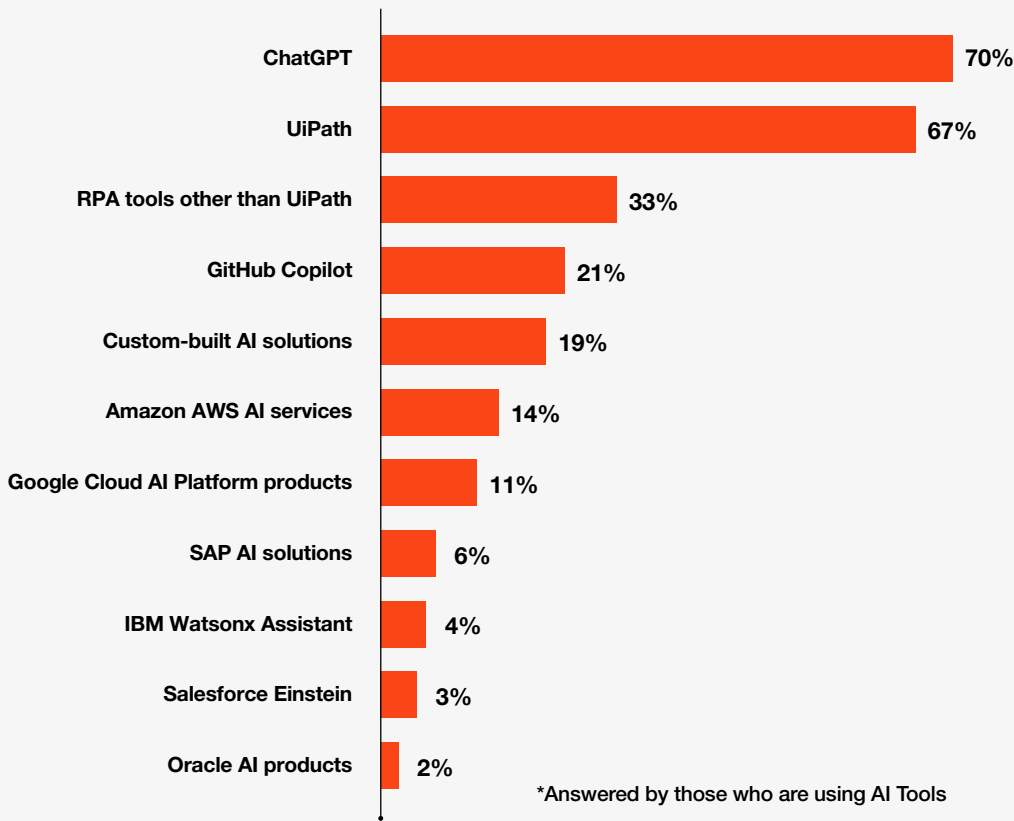
The majority of automation professionals who use AI do so daily.

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Frequency of using AI

AI is embedded in automation processes. 81% confirm that they use AI products in their automation projects at least a few times per week, if not daily.

How frequently do you use AI products to support your automation projects?*

27%	27%	27%	13%	6%
Multiple times per day	Daily or almost daily	A few times per week	A few times per month	Less than once per month
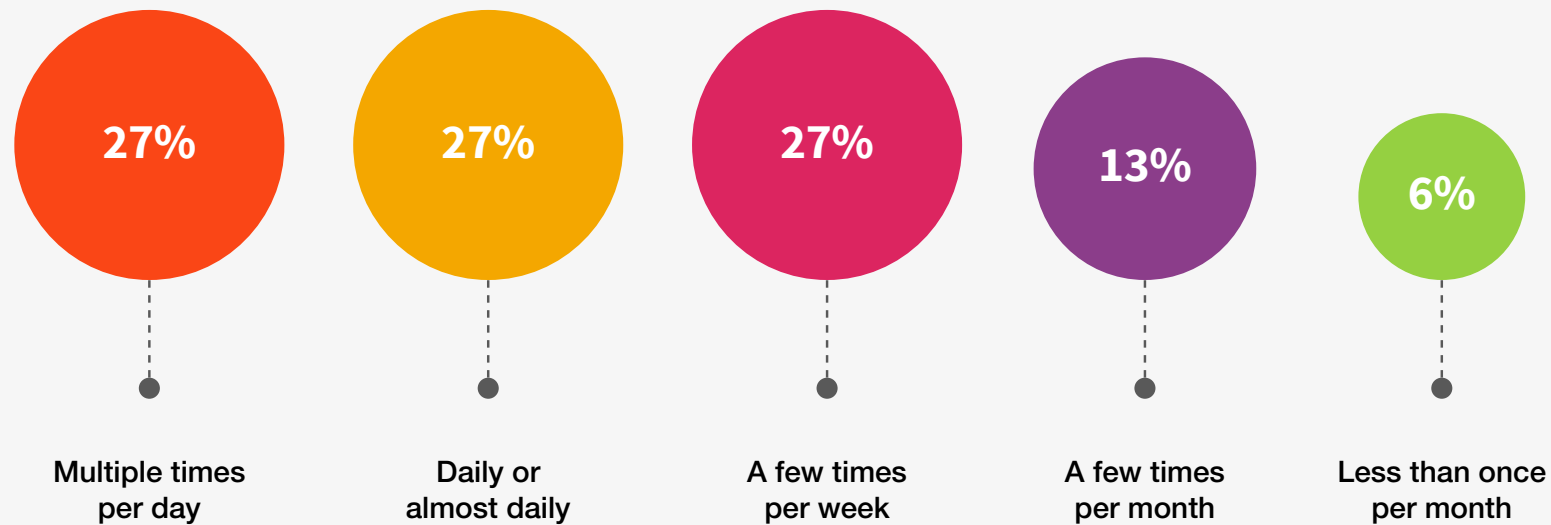
*Answered by those who are using AI tools

AI helps automation professionals improve their productivity.

Reasons for using AI

Automation professionals are using AI for many reasons, most commonly to increase productivity and become more efficient.

Why are you using AI in your automation projects?*

Increased productivity	66%
Greater efficiency	53%
Improved accuracy	48%
Faster learning	34%
Enhanced creativity	31%
Improved collaboration	16%
None of the above	1%
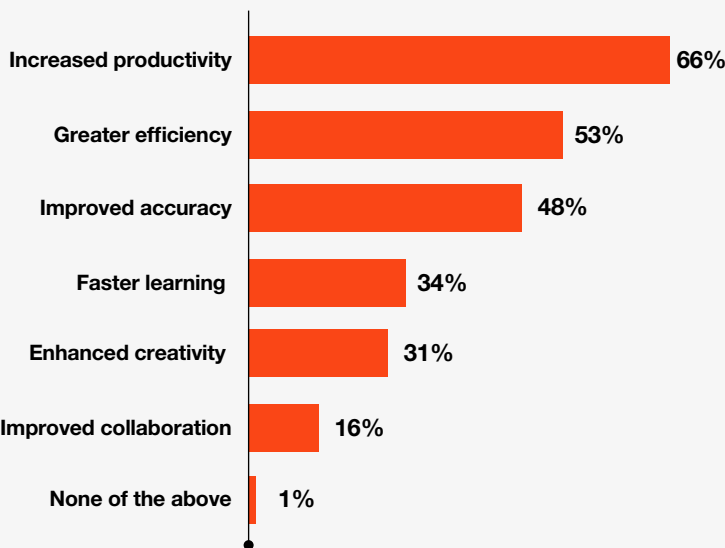
* Answered by those who are using AI tools

Ease of integrating AI into software automation

As professionals actively work to use more AI-based tools, only 19% find it difficult to incorporate AI in RPA automation.

How easy or difficult is it to integrate AI into RPA automation?

Neither difficult nor easy
31%

Somewhat easy
33%

Somewhat difficult
17%

Very easy
17%

Very difficult
2%
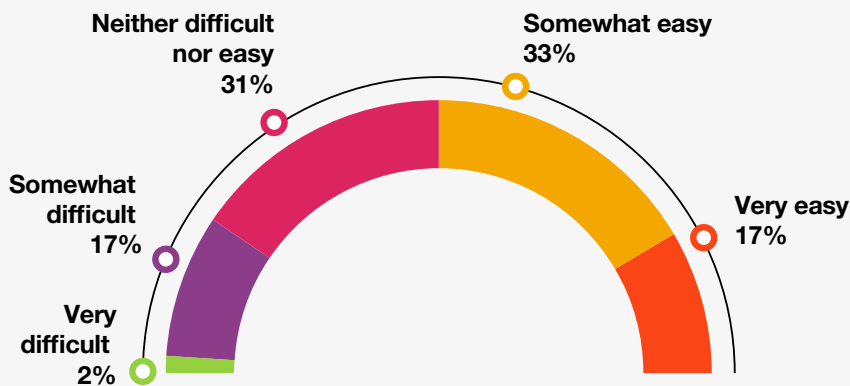
AI helps automation professionals with many tasks.

How AI tools support automation

Automation developers are using AI in many ways. Most commonly, they use it for writing code, creating documentation, and testing.

In which of the following activities will you use AI tools over the next 12 months?

Activity	Percentage
Writing code	67%
Documentation	57%
Testing and debugging	47%
Monitoring	35%
Collaboration with cross-functional teams	31%
Deployment	30%
Other	2%
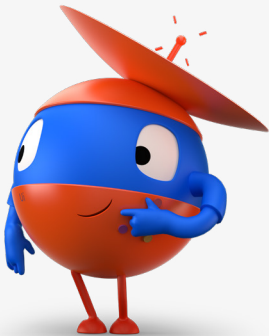
Spotlight on UiPath

Learn why automation professionals prefer UiPath, how often they interact with the platform, what tools they are using, and how connected they feel with the UiPath Community.

UiPath is easy to learn.

Reasons for preferring UiPath

The top three reasons respondents prefer UiPath are because it's easy to learn, it's user-friendly, and it has a community.

Why is this your preferred automation technology?*

Reason	Percentage
Its ease of learning	73%
It's user-friendly	71%
Its community	69%
Its flexibility and integrations	68%
It's scalable	57%
Its product innovation	56%
Its documentation	56%
Its support	51%
Its AI features	41%
It's collaborative	35%
The company's culture	26%
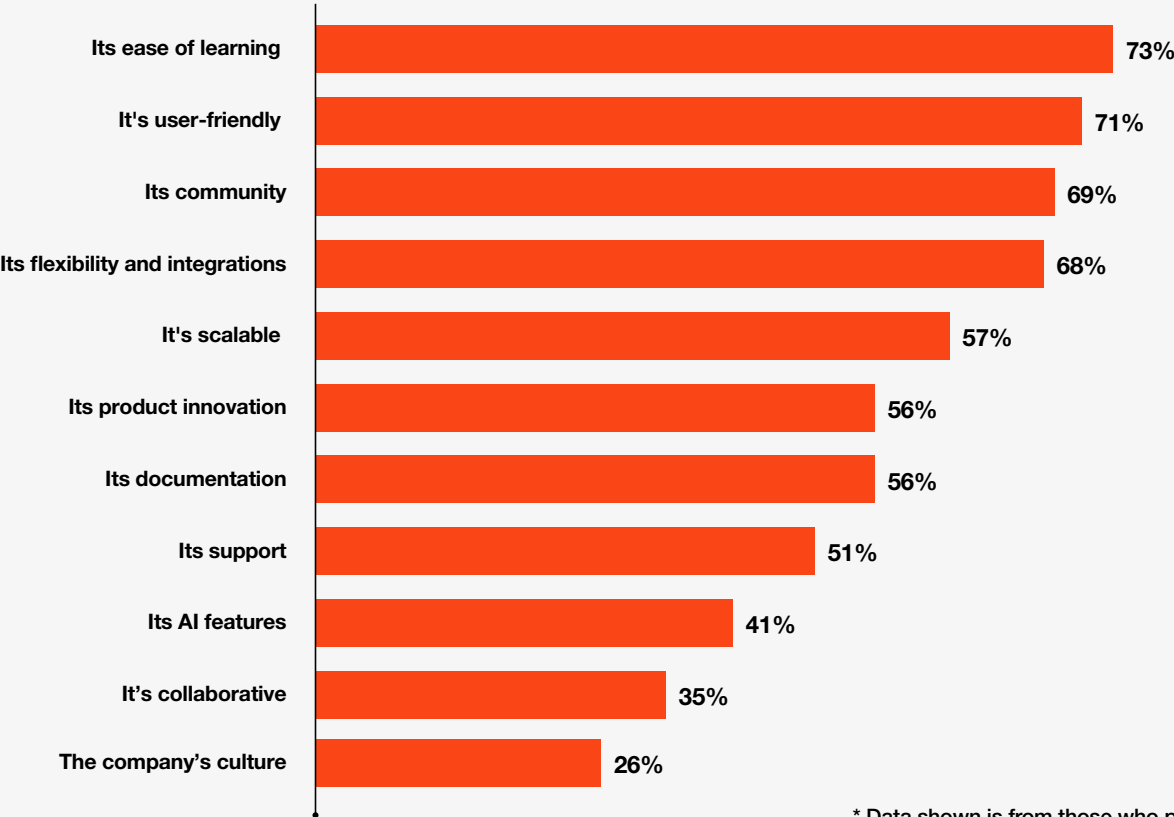
* Data shown is from those who prefer UiPath

UiPath is easy to learn.

Ease of moving processes to UiPath

Building on ease of use, 68% of respondents report it is easy to move their processes over to UiPath, up from 57% who reported it to be easy last year.

How easy or difficult was it to move your automated processes over to UiPath?

Somewhat easy
36%

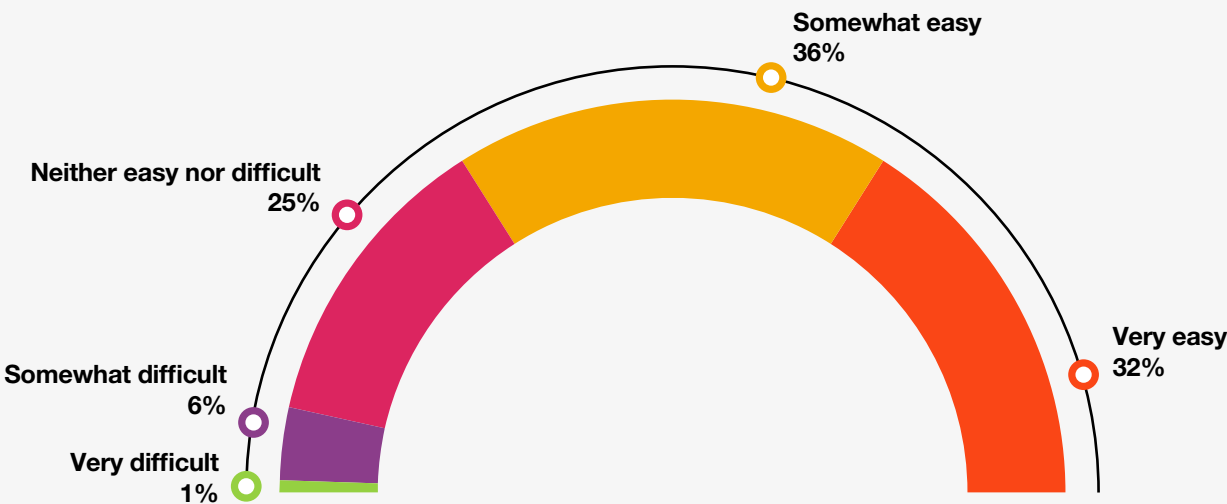Neither easy nor difficult
25%

Very easy
32%

Somewhat difficult
6%

Very difficult
1%

Automation professionals interact with and feel connected to the UiPath Community.

Interactions with UiPath Community

59% of automation professionals connect with the UiPath Community at least once a week

How often do you interact with the UiPath Community ecosystem?*

16% Less than once per month
25% A few times per month
27% A few times per week
12% Multiple times per day
20% Daily or almost daily
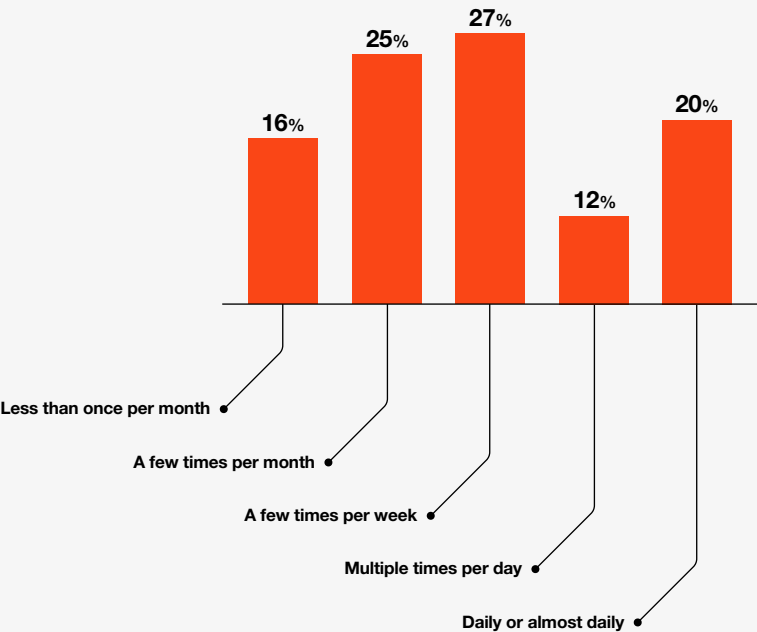
* Answered by those who have an UiPath account
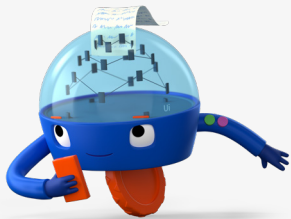
Automation professionals interact with and feel connected to the UiPath Community.

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Connection to the UiPath Community
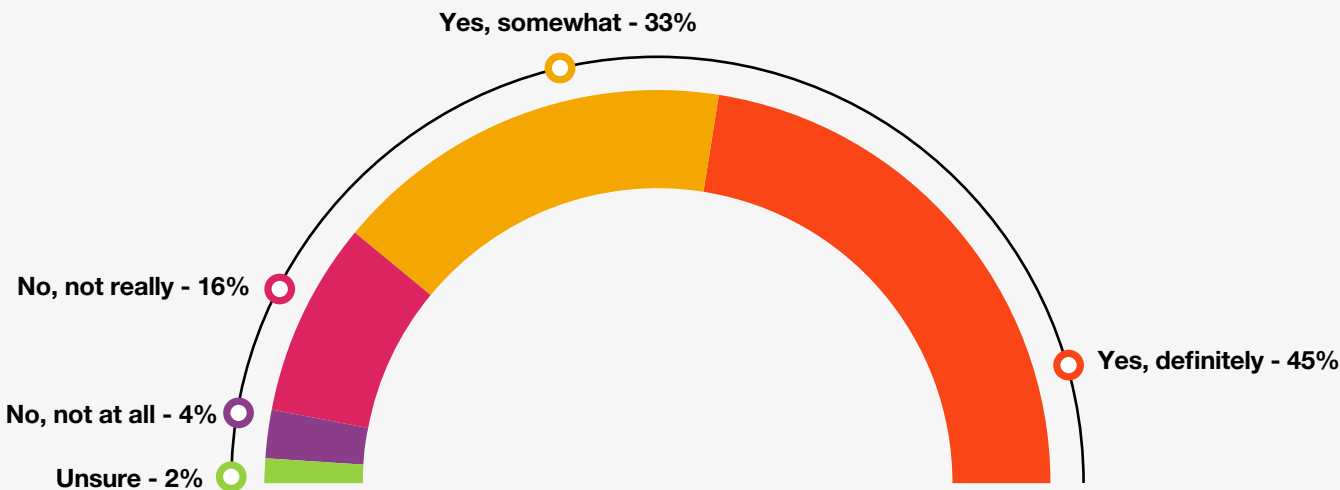
78% of UiPath users consider themselves to be part of the community.

Do you consider yourself to be a part of the UiPath Community?

Yes, somewhat - 33%

No, not really - 16%

No, not at all - 4%

Unsure - 2%

Yes, definitely - 45%

Automation professionals rely on UiPath website and UiPath Forum.

Sources used in UiPath Community

98% of software automation professionals have used at least one source from the UiPath Community. Most commonly, respondents rely on the website, Forum, and the Community blog.

What source have you used specifically in the UiPath Community?

Source	Percentage
UiPath website	76%
UiPath Forum	69%
UiPath Community blog	49%
UiPath Community Events	48%
YouTube Community channel	41%
UiPath newsletter	33%
UiPath Community LinkedIn page	28%
Academic Alliance	21%
MVP program	18%
Use-case repository	18%
Hackathons	13%
I haven't used any of these	2%
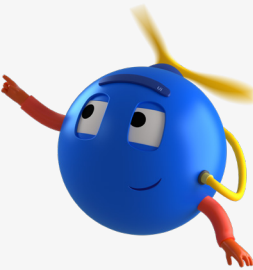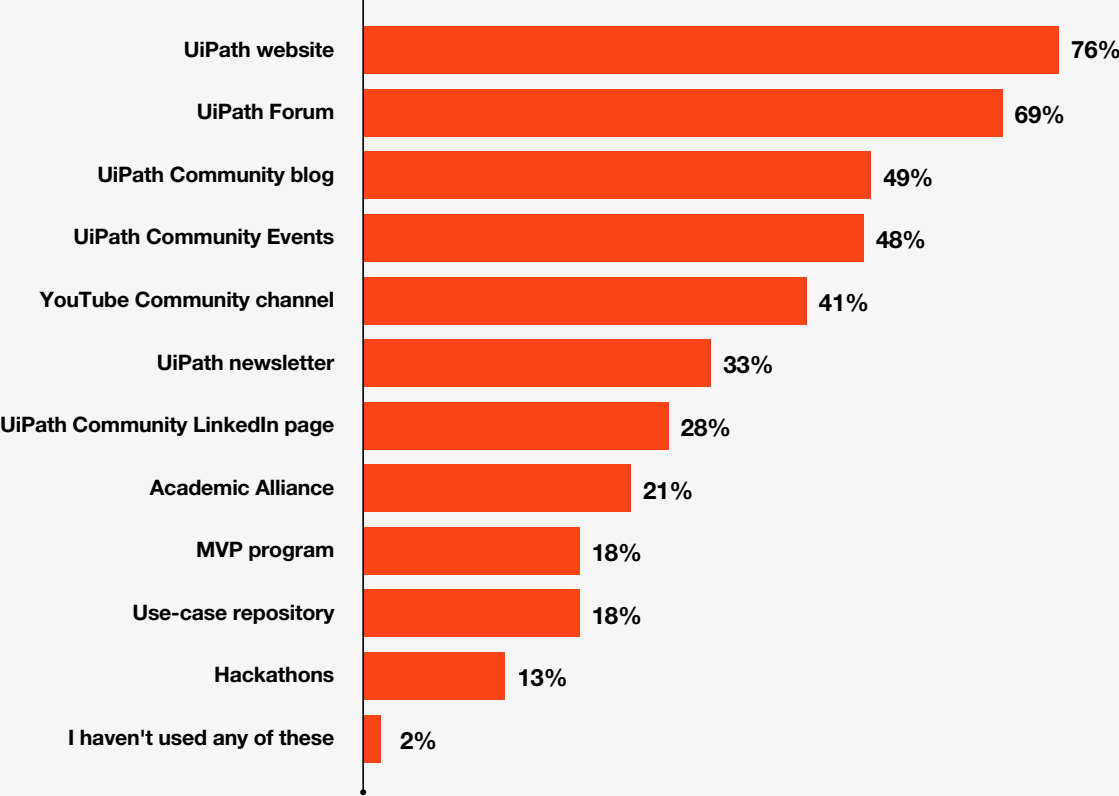
A look at how automation developers use UiPath.

The UiPath products automation developers use

Automation developers most commonly use UiPath Studio, Robots, and Orchestrator. The biggest shift we see since last year is that more developers have adopted UiPath Integration Service, Automation Ops, AI Center, and Data Service.

Tell us about your use of these UiPath products below. (Experts and users)

Discover

	2024	2023	2022
UiPath Automation Hub	44%	43%	32%
UiPath Task Capture	43%	43%	42%
UiPath Task Mining	19%	20%	14%
UiPath Communications Mining™	18%	13%	NA
UiPath Process Mining	17%	19%	14%

A look at how automation developers use UiPath.

Automate

	2024	2023	2022
UiPath Studio	96%	95%	90%
UiPath Robots	93%	94%	89%
UiPath Assistant	88%	86%	77%
UiPath Document Understanding™	58%	57%	NA
UiPath Action Center	56%	46%	37%
UiPath Integration Service	52%	35%	22%
UiPath StudioX	48%	46%	39%
UiPath Apps	47%	45%	33%
UiPath Marketplace (e.g., Solution Accelerators)	43%	56%	49%
UiPath Data Service	40%	33%	21%
UiPath AI Center	39%	38%	27%

A look at how automation developers use UiPath.

Operate

	2024	2023	2022
UiPath Orchestrator	93%	94%	85%
UiPath Automation Cloud™	64%	70%	62%
UiPath Automation Suite	38%	48%	NA
UiPath Automation Ops	35%	24%	NA
UiPath Test Manager	33%	31%	19%
UiPath Insights	32%	32%	NA

A look at how business automation professionals use UiPath.

UiPath®

The UiPath products business automation professionals use

Business automation professionals most commonly use Robots and Orchestrator.

Tell us about your use of the UiPath products below.*

86%

84%

82%

68%

54%

Robots

Orchestrator

Studio

Assistant

StudioX
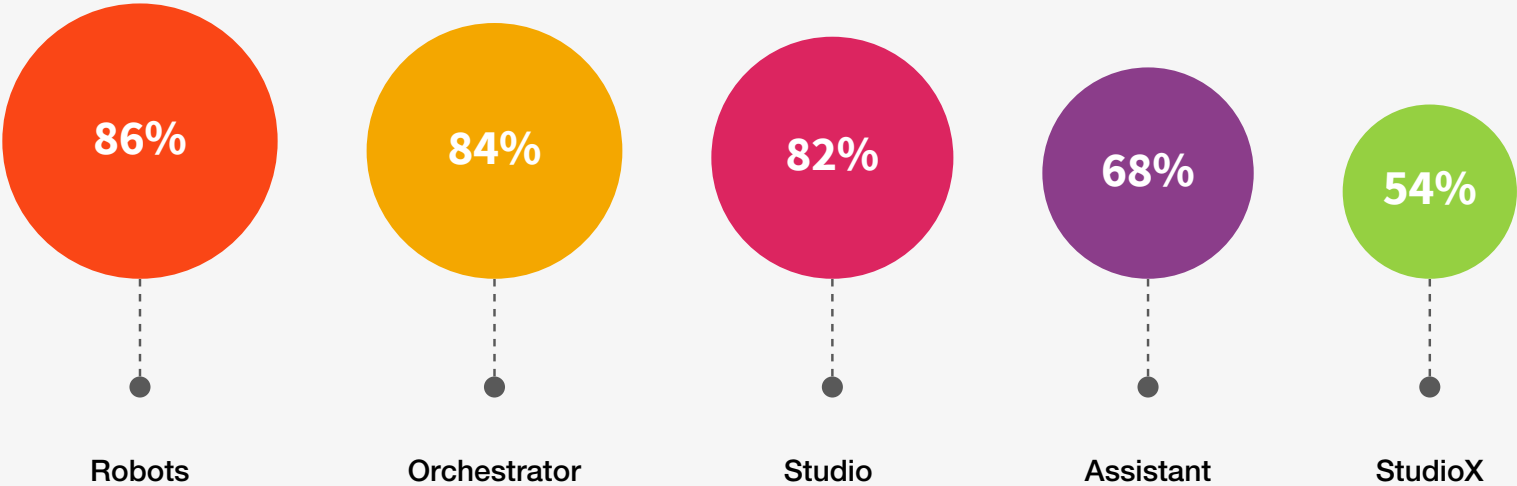
*Answered by business automation professionals only (experts + users)

Different roles focus on different UiPath products.

Automation professionals' future with UiPath

Both developers and business professionals want to use UiPath AI Center, Studio, UiPath Document Understanding™, and Orchestrator. However, developers are more focused on UiPath Robots, whereas business professionals want to use UiPath Process Mining.

Which of these UiPath products are you most interested in building expertise around for your career?

UiPath products automation developers want to build expertise around

Which of these products are you most interested in building your expertise around for your career? Select up to three.	2024	2023	2022	2021
UiPath Studio	39%	38%	44%	44%
UiPath AI Center	33%	35%	37%	38%
UiPath Document Understanding™	33%	30%	30%	27%
UiPath Orchestrator	29%	29%	33%	35%
UiPath Robots	17%	18%	21%	25%
UiPath Autopilot™	15%	NA	NA	NA
UiPath Apps	10%	11%	11%	10%

How students see the automation market

Get insights about the up-and-comers who might enter this field—and learn how they are different from the developers who are actively working in the industry.
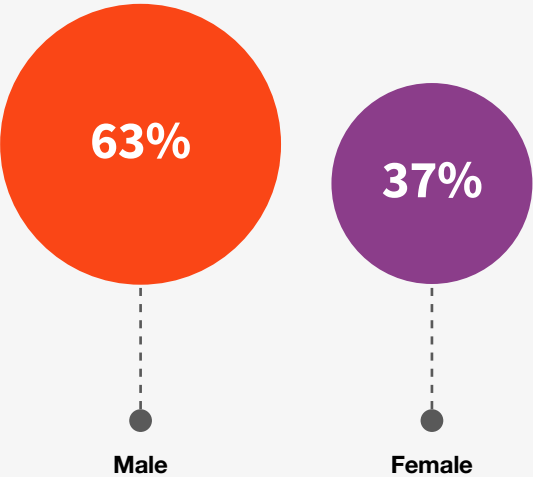
How students see the automation market.

Gender

While 22% of automation professionals are female, 37% of students who are interested in automation are female.

What is your gender identity?

63% Male

37% Female

Geographical presence

As we see each year, the vast majority of student respondents live in Asia-Pacific and Japan. However, this year, we see an increase in those who live in EMEA.

In what region do you live?

Region	%
Asia-Pacific and Japan	65%
Europe, Middle East, or Africa	18%
North America South America	17%
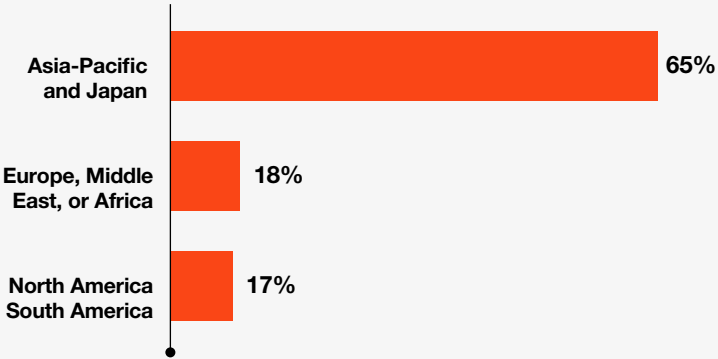
	AMER	APJ	EMEA
Male	65%	62%	69%
Female	33%	38%	31%
Nonbinary	2%	0%	0%

How students see the automation market.
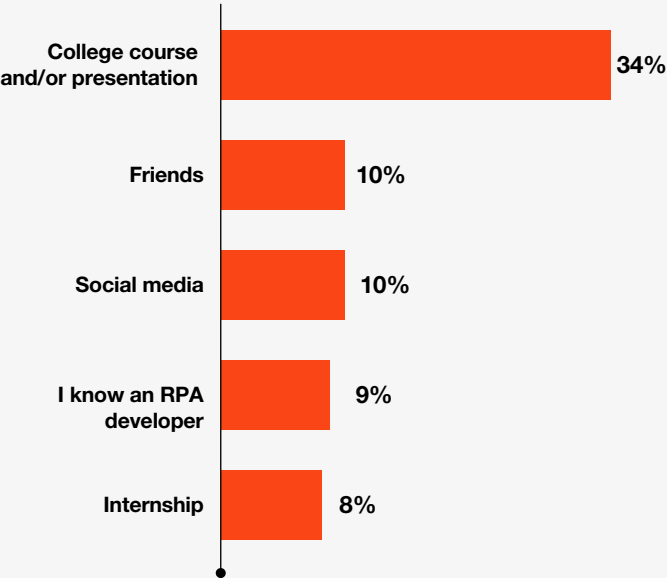
How students learn about software automation

While college courses continue to be the most common way students are introduced to RPA, more are learning about it from RPA developers.

How did you first hear about RPA? (Top 5)

College course and/or presentation	34%
Friends	10%
Social media	10%
I know an RPA developer	9%
Internship	8%

Prevalence of software automation courses

81% of students have taken or plan to take a college course about software automation.

**Have you taken or do you plan to take a college course about software automation?**

I have taken a course	34%
I plan to take a course	47%
I have no plans to take a course	24%

How students see the automation market.

UiPath
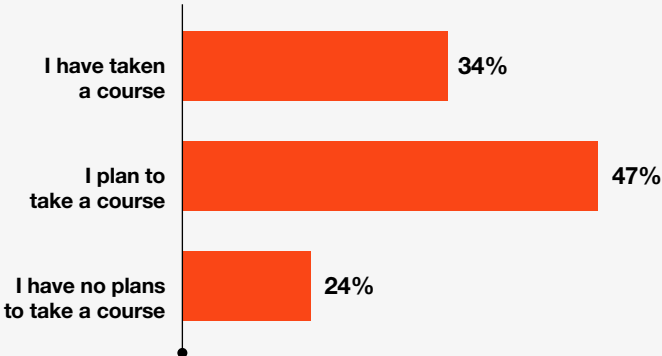
Considering jobs in software automation

Out of those students we surveyed, 71% are considering a job in software automation after they graduate, up from 66% last year. Of those, 60% are considering a job as a developer and 35% are considering a job as a business automation professional.

Are you considering a job in software automation after you graduate?

71%

8%

21%

Yes   No   Unsure
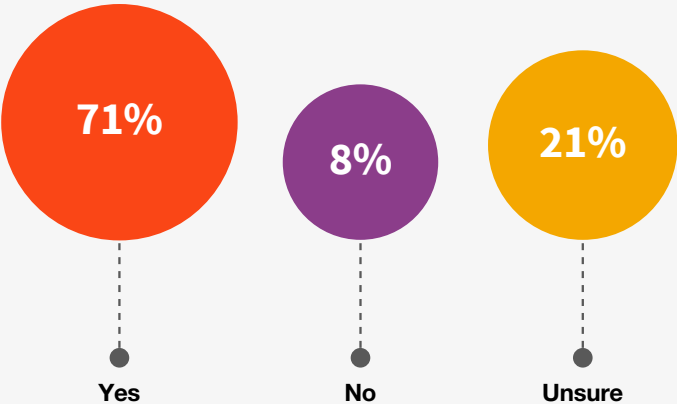
Internships

Similar to last year, 91% of students were interested in or completed an internship.

Have you enrolled in any internships?

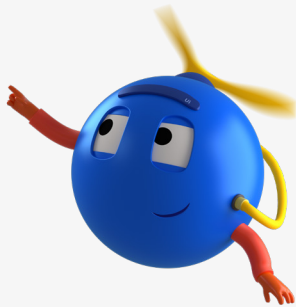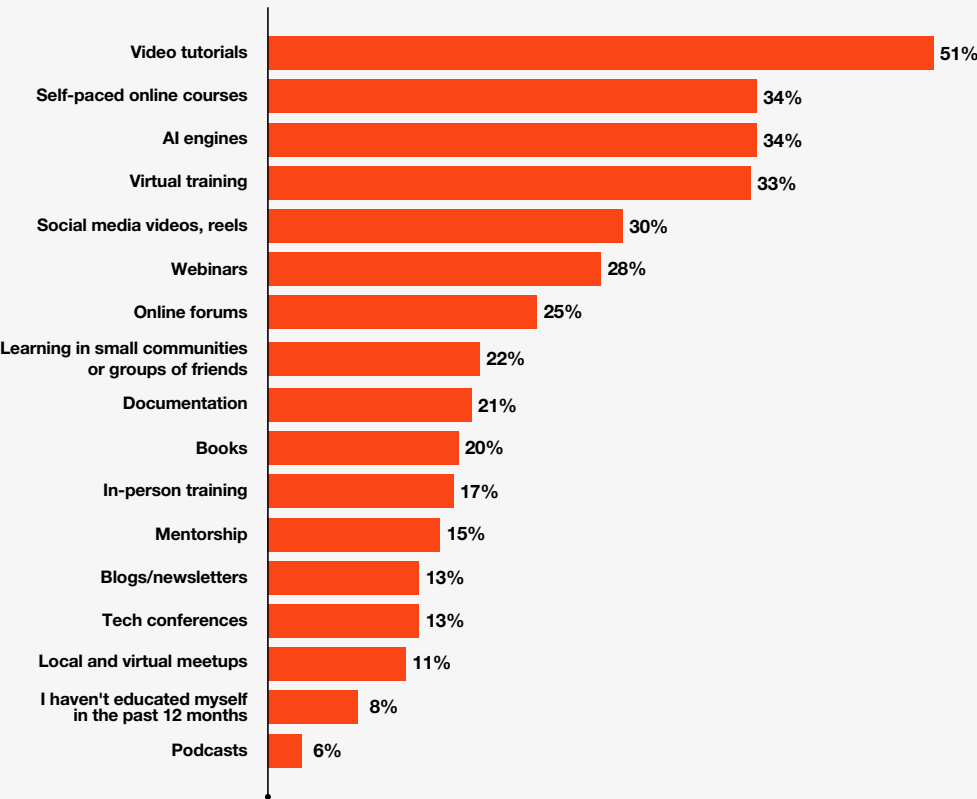|	
Yes, I already completed one	20%
Yes, I am currently part of an internship program	10%
No, but I am interested	61%
No, and I am not interested	9%
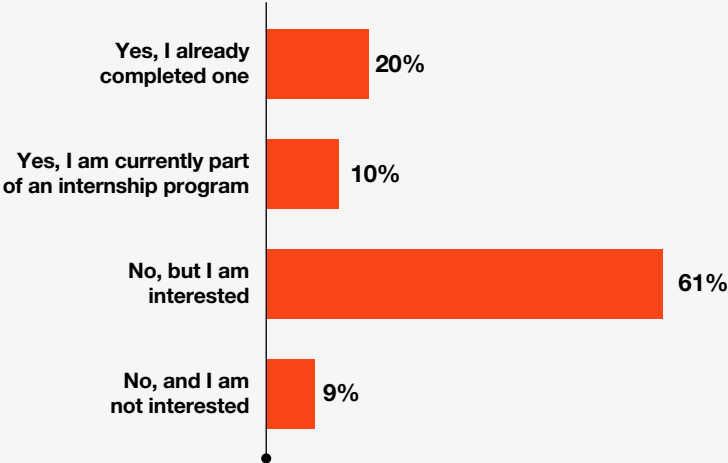
How students see the automation market.

Education around software automation

92% of students have educated themselves about software automation in the past year, up from 84% last year. Most commonly, they are using video tutorials.

How have you educated yourself about software automation in the past 12 months?

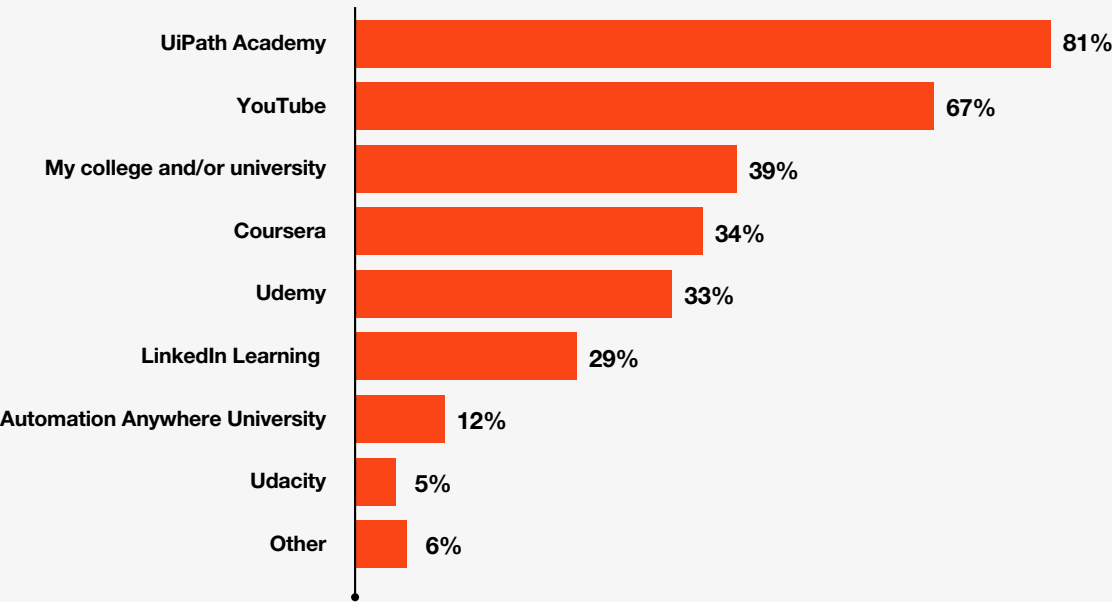| Category	Percentage
Video tutorials	51%
Self-paced online courses	34%
AI engines	34%
Virtual training	33%
Social media videos, reels	30%
Webinars	28%
Online forums	25%
Learning in small communities or groups of friends	22%
Documentation	21%
Books	20%
In-person training	17%
Mentorship	15%
Blogs/newsletters	13%
Tech conferences	13%
Local and virtual meetups	11%
I haven't educated myself in the past 12 months	8%
Podcasts	6%

How students see the automation market.

Sources of online courses

34% of students have taken an online course in the past year, up from 24% last year. The most common sources continue to be the UiPath Academy and YouTube.

What source have you used for your online courses?

Source	Percentage
UiPath Academy	81%
YouTube	67%
My college and/or university	39%
Coursera	34%
Udemy	33%
LinkedIn Learning	29%
Automation Anywhere University	12%
Udacity	5%
Other	6%

How students see the automation market.

Current software automation certifications

20% of students report they have a professional certification in software automation, down from 24% last year. Those who have a certification most commonly have the UiPath Certified Professional Automation Developer Associate certification.

Do you have a professional software automation certification?

20%

of students report having a professional certification in software automation, with the most common being the UiPath Certified Professional Automation Developer Associate certification.

Future software automation certifications

83% of students plan to get a certification in the next 12 months, up from 79% last year.

**Do you plan to get an additional certification within the next 12 months?**

83%

of students plan to get a certification in the next 12 months

How students see the automation market.

Feeling connected to the UiPath Community

78% of students who use UiPath consider themselves to be a part of the Community. Compared to last year, more students consider themselves to "definitely" be a part of the Community (47% last year vs. 57% this year).
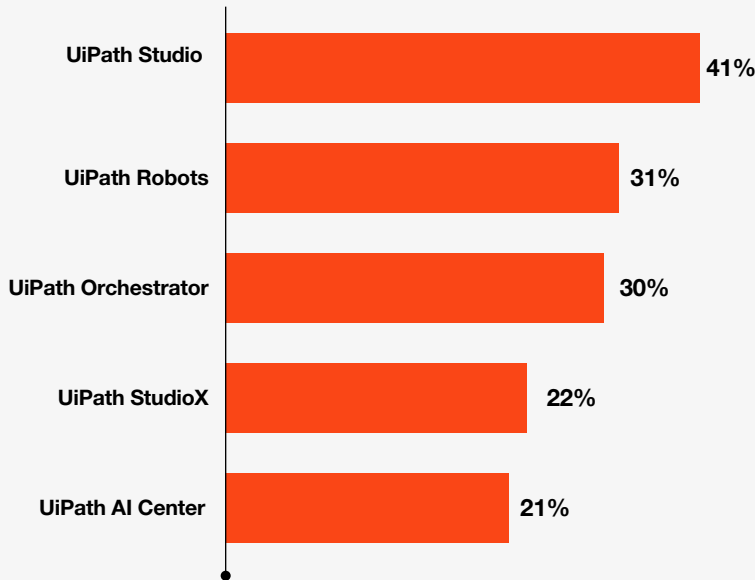
Do you consider yourself to be a part of the UiPath Community?

Yes, definitely - 57%
Yes, somewhat - 21%
No, not really - 12%
No, not at all - 4%
Unsure 6%
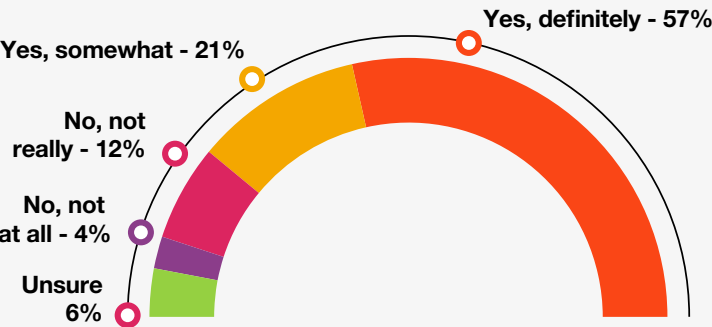
How students want to use UiPath

Students are most interested in building their expertise around Studio, Robots, and Orchestrator. Compared to last year, students have increased interest in Studio, Robots, and Orchestrator.

Which of these UiPath products are you most interested in building expertise around for your career? (Top 5)

Product	Percentage
UiPath Studio	41%
UiPath Robots	31%
UiPath Orchestrator	30%
UiPath StudioX	22%
UiPath AI Center	21%

Resources

Ui|Path™ Platform

The UiPath Business Automation Platform™ covers your automation needs across each step of the journey. In the Discovery phase, you can identify the highest-ROI opportunities for continuous process optimization and automation using the power of AI. For Automate, you can rapidly build AI-powered automation that seamlessly collaborates with people and systems to transform every facet of work. In the Operate phase you can establish an enterprise-grade foundation to run and optimize a mission-critical automation program at high scale. From core to specialized AI solutions to generative AI experiences—all in a single, enterprise-grade platform

https://www.uipath.com/product

Ui|Path® Community

The UiPath Community is a vibrant ecosystem of automation professionals learning, supporting, and succeeding together in their careers. With more than 2.5 million users worldwide, this is a dedicated space for automation enthusiasts to look for innovative ideas, collaborate with peers in the industry, learn the latest in AI automation, and upskill in their journey. As part of the UiPath Community, you get to interact with everything that the UiPath Platform has to offer, showcased through dedicated community events, developer conferences, tutorials, hackathons, and other innovative programs. The goal is to help others grow collaboratively through three main pillars: learning, support, and networking. Everybody is welcome and encouraged to contribute to the AI automation space.

https://community.uipath.com/

Ui|Path® Academy

The automation courses on UiPath Academy cover a wide range of topics and skills like: automation, AI, RPA, intelligent document processing, or test automation. And the best part is that these self-paced online courses go beyond theory to developing processes and troubleshooting issues. Learners can elevate themselves to one or more of our 10+ practitioner roles: automation developer, specialized AI professional, test automation engineer, automation solution architect, and so on. With a library of more than 400 courses in ten languages, the academy has reached 1.8 million users and keeps growing.

https://www.uipath.com/rpa/academy
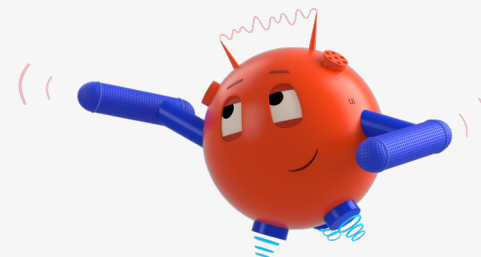
Resources

Ui Path®

Ui Path® Forum

The UiPath Forum is a collaborative platform dedicated to the UiPath ecosystem, catering to automation professionals, developers, and enthusiasts. The Forum promotes sharing of best practices and innovative solutions to automation challenges. It is organized as a hub for knowledge sharing, problem-solving, and innovation. Members can access and contribute to a wealth of tutorials, guides, and how-to articles that cover a wide range of topics from beginner to advanced levels. Users can collaborate on open-source projects, share code snippets, and discuss new ideas, fostering innovation and collective problem-solving within the Community. In this space, new features and improvements can directly influence the development of UiPath products. Networking and career opportunities? The Forum includes a job board where companies can post openings. Join us and keep up with updates on product releases, Community achievements, events, tutorials, and many other resources.

https://forum.uipath.com

Ui Path™ Documentation

Gain advantage in UiPath product knowledge by scrolling through our documentation pages. Discover the official information about product updates, or technical articles, such as feature descriptions, step-by-step procedures, or troubleshooting sections. Use the search functionality to find targeted information in all delivery options, be it cloud, standalone, or the complete Automation Suite. Parlez-vous francais? No worries, the content is available in multiple languages. Whether you are a novice or a pro-user, your questions and feedback are our inspiration, so start exploring with UiPath Documentation.

https://docs.uipath.com

Resources

Marketplace

UiPath Marketplace serves as a resource for users to discover, access, and utilize over 2,000 pre-built automations that can enhance their automation initiatives and achieve greater efficiency and productivity. These automations are designed to extend and complement the functionalities and use cases offered by UiPath core products. The automations available on UiPath Marketplace cover a diverse suite of popular technologies, including Microsoft, Google, Oracle, and others. They are created by UiPath, as well as by third-party contributors, such as UiPath partners, customers, and Community contributors, making the Marketplace a diverse and comprehensive repository of automations that span across various industries and sectors.

By leveraging the automations available on Marketplace, users can optimize and scale their automation journey without having to build everything from scratch repeatedly. These pre-built automations can be easily integrated into UiPath workflows, saving time and effort in development and implementation.

In addition to code files, Marketplace users are provided with a description of each automation offered. This includes information on the automation's key features, as well as relevant technical details such as product compatibilities, dependencies, demo videos, and user guides, all of which serve to expedite the configuration process. The automations on UiPath Marketplace are carefully vetted to ensure their quality, security, and functionality.

https://marketplace.uipath.com

About UiPath

UiPath is on a mission to uplevel knowledge work so more people can work more creatively, collaboratively, and strategically. The AI-powered UiPath Business Automation Platform™ combines the leading robotic process automation (RPA) solution with a full suite of capabilities to understand, automate, and operate end-to-end processes, offering unprecedented time to value.

Join the UiPath Community to connect, learn, and succeed in your automation journey!
https://community.uipath.com

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