MACHINE LEARNING SOLUTION CANVAS

smartbi

Input

Data sources
From which sources do we get the required input data?

Features
What features are needed from the data sources, and what other characteristics need to be noted for input data?

Extraction
How can the input data be extracted from the sources, during both model development and after deployment? And what type of data cleaning, processing, augmenting or similar actions are likely to be needed?

Solution

Task
What is the concrete, summarised task that the model should perform and why?

Modelling Methods
What modelling methods, frameworks and technologies seem likely to deliver the task?

Modelling Metrics
What exact metrics should guide model development, i.e. what metrics should be optimised for in modelling? Are there constraints or preferential error types (eg. are false negatives more tolerable than false positives?)

Output

Model Output
What features does the model output consist of and how is the output delivered from the model?

Interface
How and where is the input of the model deployed to display it to end users and / or interact with other programmes or processes?

Continuous Improvement
How is the model improved after initial deployment, and how is its performance monitored?

Constraints

Deployment Constraints
What constraints need to be taken into account in model deployment (e.g. related to IT infrastructure, hardware or performance limitations?)

Security, Privacy & Regulatory Constraints
How will security, privacy and the regulatory environment (related to e.g. handling of personal data and classified business information) be taken into account in the model?