OWNML MACHINE LEARNING CANVAS

Designed for: | Designed by: | Date: | Iteration:

PREDICTION TASK

What is the type of task?
Which entity are predictions made on?
What are the possible outcomes to predict?
When are outcomes observed?

DECISIONS

How are predictions turned into actionable recommendations or decisions for the end-user? (Mention parameters of the process / application for this.)

VALUE PROPOSITION

Who is the end beneficiary, and what specific pain points are addressed?
How will the ML solution integrate with their workflow, and through which user interfaces?

DATA COLLECTION

How is the initial set of entities and outcomes sourced (e.g., database extracts, API pulls, manual labeling)?
What strategies are in place to update data continuously while controlling cost and maintaining freshness?

DATA SOURCES

Where can we get data on entities and observed outcomes? (Mention internal and external database tables or API methods.)

IMPACT SIMULATION

What are the cost/gain values for (in)correct decisions?
Which data is used to simulate pre-deployment impact?
What are the criteria for deployment?
Are there fairness constraints?

MAKING PREDICTIONS

Are predictions made in batch or in real time?
How frequently?
How much time is available for this (including featurization and decisions)?
Which computational resources are used?

BUILDING MODELS

How many models are needed in production?
When should they be updated?
How much time is available for this (including featurization and analysis)?
Which computation resources are used?

FEATURES

What representations are used for entities at prediction time?
What aggregations or transformations are applied to raw data sources?

MONITORING

Which metrics and KPIs are used to track the ML solution's impact once deployed, both for end-users and for the business?
How often should they be reviewed?

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[FREE] ONLINE COURSE

Introduction to the Machine Learning Canvas

Get started with the MLC in this short course taught by its author.

Start Here

[Video] Overview of the 10 boxes that make up the MLC

3:31

[Video] Why use the MLC?

2:34

[Video] Structure of the MLC

2:49

Get your AI-generated canvas

Prepare for implementation

Start now at ownml.co/intro