Machine Learning Operations Canvas (v0.1)

Product name: **Designed by:** **Date:** **Iteration:**

Problem

Background

Describe the context, including the problem and buisness need. Explain why this ML project is important

Value proposition

Outline the key benefits and the value the ML solution will bring. Highlight its impact on the business or users.

Objectives

State the specific, measurable goals of the ML project. Detail the expected outcomes and success criteria.

Data

Data collection

Identify the data sources and methods for gathering data. Include information on data frequency and volume.

Data verification and governance

Explain the data management policies, focusing on quality, privacy, and compliance. Describe data storage and access controls.

Model

Modelling

Detail the algorithms and techniques used for building the ML model. Include information on feature engineering and selection.

Metrics & Evaluation

Specify the performance metrics and evaluation methods. Describe how the model's effectiveness will be assessed.

Model governanace

Outline the processes for monitoring and maintaining the model. Include procedures for updating and retraining the model.

Operations

Inference

Describe the deployment process for the model to make predictions. Include details on the infrastructure and environment used.

Decision

Explain how the model's predictions are integrated into decision-making. Detail any human oversight or automated decision systems.

Monitoring

Feedback

Describe the mechanisms for collecting feedback on model performance. Explain how this feedback is used to refine the model.

Lifetime

Outline the entire lifecycle of the model from development to retirement. Include plans for model versioning and decommissioning.

MLOps

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