# Loan Default Prediction Project Proposal

## Overview

The financial institution has asked me to build a machine learning model to predict loan default. The model is based on data collected from clients who received loans in a chosen year.

| Milestones | Tasks (PACE stage) | Deliverables/Reports |
|---|---|---|
| **1** | Establish structure for project workflow (Plan) | Global-level project document |
| **1a** | Write a project proposal (Plan) | |
| **2** | Compile summary information about the data (Analyze) | Data files ready for EDA |
| **2a** | Begin exploring the data (Analyze) | |
| **3** | Data exploration and cleaning (Plan & Analyze) | EDA report |
| **3a** | Visualization building (Construct & Analyze) | Tableau dashboard/visualizations |
| **4** | Feature engineering (Analyze) | Combined features with more predictive power to the user churn. |
| **5** | Build a machine learning models (Execute) | Testing different machine learning models and choose the "champion" model. |
| **6** | Communicate final insights with stakeholders (Execute) | Report to all stakeholders |

## PROJECT MILESTONES TIME FRAME

Milestone 1: 2 days

Milestone 2: 2-3 weeks

Milestone 3: 1 week

Milestone 4: 1 week

Milestone 5: 1-2 weeks