**High-Level Document**

**Project Title:** Credit Card Default Prediction

**Objective:** To predict whether a customer is likely to default on their next credit card payment using machine learning techniques.

**Key Features:**

1. **Prediction Model:** Uses a machine learning model (Random Forest Classifier) trained on historical credit card payment data.
2. **Input Parameters:** Includes features like credit limit, repayment history, bill amounts, and previous payments.
3. **Frontend Integration:** Utilizes Streamlit for a user-friendly interface, allowing real-time predictions.
4. **Output:** Displays whether a customer is likely to default or not.

**Technologies Used:**

* Python (pandas, scikit-learn, Streamlit)
* Machine Learning (Random Forest Classifier)
* GitHub for version control

**Workflow:**

1. Data Preprocessing: Cleaning and preparing the dataset for training.
2. Model Training: Building and evaluating the machine learning model.
3. Deployment: Streamlit application for user interaction.
4. Version Control: Uploading the project to GitHub.

**Expected Outcome:** Accurate prediction of customer default risk, helping financial institutions minimize losses.