**PROJECT MILESTONE 1**

**PACE: Plan Stage**

* Who is the audience for this project?

The audience is the financial institution data team and the stakeholders.

* What am I trying to solve or accomplish? And, what do I anticipate the impact of this work will be on the larger needs of the client?

Working to develop a machine learning model to predict loan default of borrowers.

* What questions need to be asked or answered?

Considered the following questions:What is the condition of the provided dataset? What variables will be the most useful? Are there trends within the data that can provide insight? What steps can I take to reduce the impact of bias?

* What resources are required to complete this project?

I will needthe project dataset, Python notebook, and input from stakeholders.

* What are the deliverables that will need to be created over the course of this project?

The deliverables include*a*dataset scrubbed for exploratory data analysis, visualizations and machine learning model.

## 

### **Project tasks**

1. **Evaluating the model: Execute**

After the model has been constructed, data is run through to evaluate whether it meets the project’s expectations and goals.

1. **Begin exploring the data: Analyze**

During the analysis phase, I will gain a deeper understanding of the dataset and the information within it.

1. **Data exploration and cleaning: Plan** **and Analyze**

Planning takes place when you first make choices about the methods needed. The cleaning process then takes place in the analyzing stage.

1. **Establish a structure for project workflow (PACE): Plan**

Planning stage. Creating an initial project PACE document outlines the workflow and helps to plan how to best approach a project.

1. **Communicate final insights with stakeholders: Execute**

Communication is necessary at various points throughout a project. Final insights are shared with stakeholders in the execute phase of the data project workflow.

1. **Compute descriptive statistics: Analyze**

Investigating the statistics within data takes place during analysis.

1. **Visualization building: Analyze and Construct**

Visualization begins with data assessment and is created during the construction stage.

1. **Write a project proposal: Plan**

Planning stage. A project proposal is the initial document used to define a project.

1. **Compile summary information about the data: Analyze**

Inspecting a dataset to compile information would take place in the analysis phase.

1. **Build machine learning model: Construct**

The building of a data model would take place in the construct stage.