

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 need the 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.

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

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

3. 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.

4. 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.

5. 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.

6. Compute descriptive statistics: **Analyze**

Investigating the statistics within data takes place during analysis.

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

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

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

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

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

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

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

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