

Data Project Questions & Considerations



PACE: Plan Stage

- Who is your audience for this project?

The audience will be the Waze data team and cross-functional team members.

- What are you trying to solve or accomplish? And, what do you anticipate the impact of this work will be on the larger needs of the client?

Working to develop a machine learning model to predict user churn.

- What questions need to be asked or answered?

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?

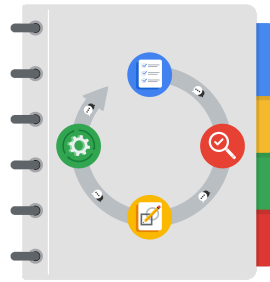
- What resources are required to complete this project?

We 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, statistical model, regression analysis and/or machine learning model.

THE PACE WORKFLOW



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. Conduct hypothesis testing: **Analyze** ▾ and **Construct** ▾

During the analyzing stage, it is determined that a statistical test will be used. During the construction phase, the test is carried out.

3. Begin exploring the data: **Analyze** ▾

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

4. 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.

5. Establish 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.

6. 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.

7. Compute descriptive statistics: Analyze ▾

Investigating the statistics within data takes place during analysis.

8. Visualization building: Analyze ▾ and Construct ▾

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

9. Write a project proposal: Plan ▾

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

10. Build a regression model: Analyze ▾ and Construct ▾

During the analyzing stage, the model is examined in detail to be sure it will meet the needs of the task. The building of the regression model will take place in the construction phase.

11. Compile summary information about the data: Analyze ▾

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

12. Build machine learning model: Construct ▾

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