

PACE STRATEGY DOCUMENT

Who is your audience for this project?

New York City Taxi and Limousine Commission.

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?

The problem we are trying to solve is the estimation of taxi fares based on relevant variables that you identify.

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?

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

Following are a group of tasks your company's data team has determined need to be completed within this project. The data analysis manager has asked you to organize these tasks in preparation for the project proposal document. First, identify which stage of the PACE workflow each task would best fit under using the drop down menu. Next, give an explanation of why you selected the stage for each task. Review the following readings to help guide your selections and explanation: The PACE stages and Communicate objectives with a project proposal. You will later reorder these tasks within a project proposal.

Evaluating the model: Execute

Why did you select this stage for this task?

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

Conduct hypothesis testing: Analyse and Construct

Why did you select these stages for this task?

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

Begin exploring the data: Analyse

Why did you select this stage for this task?

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

Data exploration and cleaning: Plan and Analyse

Why did you select these stages for this task?

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

Establish structure for project workflow (PACE): Plan

Why did you select this stage for this task?

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

Communicate final insights with stakeholders: Execute

Why did you select this stage for this task?

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

Compute descriptive statistics: Analyse

Why did you select this stage for this task?

Investigating the statistics within data takes place during analysis.

Visualization building: Analyse and Construct

Why did you select these stages for this task?

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

Write a project proposal: Plan

Why did you select this stage for this task?

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

Build a regression model: Analyse and Construct

Why did you select this stage for this task?

During the analysing 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.

Compile summary information about the data: Analyse

Why did you select this stage for this task?

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

Build machine learning model: Construct

Why did you select this stage for this task?

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