

Course Seven

Google Advanced Data Analytics Capstone



Instructions

Use this PACE strategy document to record your decisions and reflections as a data professional as you work through the capstone project. As a reminder, this document is a resource guide that you can reference in the future and a space to help guide your responses and reflections posed at various points throughout the project.

Portfolio Project Recap

Many of the goals you accomplished in your individual course portfolio projects are incorporated into the Advanced Data Analytics capstone project including:

- Create a project proposal
- Demonstrate understanding of the form and function of Python
- Show how data professionals leverage Python to load, explore, extract, and organize information through custom functions
- Demonstrate understanding of how to organize and analyze a dataset to find the “story”
- Create a Jupyter notebook for exploratory data analysis (EDA)
- Create visualization(s) using Tableau
- Use Python to compute descriptive statistics and conduct a hypothesis test
- Build a multiple linear regression model with ANOVA testing
- Evaluate the model
- Demonstrate the ability to use a notebook environment to create a series of machine learning models on a dataset to solve a problem
- Articulate findings in an executive summary for external stakeholders



Project proposal

Salifort Motors Project Proposal

Overview

Salifort Motors wants to have a method for gauging data for predicting which/why employees will leave.

Milestones	Tasks	PACE stages
1	Define the problem encountered by the company by understanding the scenario given	Plan
2	Explore and clean the data	Plan, Analyze
3	Pick the right model for the task	Analyze, Construct
4	Build the model	Construct
5	Measure how well the model performs	Analyze
6	Explain the results and suggest next steps	Execute
7	Present the final project	Execute