Course 1: Foundations of Data Science

Automatidata Project Proposal

Overview

The New York City Taxi and Limousine Commission seeks a way to utilize the data collected from the New York City area to predict the fare amount for taxi cab rides.

Milestones	Tasks	Deliverables/Reports	Milestone Estimate
1	Establish structure for project workflow (PACE) Plan	• Global-level project document	1 – 2 days
1a	Write a project proposal Plan		
2	Compile summary information about the data Analyze	• Data files ready for EDA	2 - 3 weeks
2a	Begin exploring the data Analyze		
3	Data exploration and cleaning Plan and Analyze	• EDA report	1 week
3a	Visualization building Construct and Analyze	• Tableau dashboard/visualizations	

4	**Compute descriptive statistics** Analyze	• Analysis of testing results between two important variables	1 week
4a	**Conduct hypothesis testing** Analyze **and** Construct	• Review testing results	
5	**Build a regression model** Analyze **and** Construct	• Model report	2 - 3 weeks
5a	**Build a machine learning model** Construct		
6	**Evaluate the model** Execute	• Determine the success of the model • Final model	1 week
6a	**Communicate final insights with stakeholders** Execute	• Report to all stakeholders	

Note: The estimated times for the milestones in the example equate to the length of the courses where you will learn the necessary skills. Realistic timelines when working with actual clients and data scientists as a data scientist would most likely have tight deadlines