

Individual Journal on contribution to the project

“Tax Data Analysis Using Python and Impact of Tax on Alzheimer’s Disease”

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Related to Connecticut Sales and Use Tax dataset:

1. Created common database in MongoDB server to store all the data sets of the team and downloaded the data set from the publicly available data source and imported the data set into the created database as a collection using python’s pymongo library.

Challenges: Had an issue with the MongoDB’s connection string due to special characters in password.

Addressed the above challenge by updating the password of the MongoDB server to contain no special characters.

Time Taken: 2 hours

2. Understanding the data set like finding the significance of each data points in the data set and also understanding the data present in each column of the data set.

Time Taken: 3 hours

3. Performed Data pre-processing to make the data structured and cleaned to get insights from the data without any distortions.

Time Taken: 1 day

4. Done some research on the existing works to find the model that suits for predicting my target variable and prepared the data to fit the model.

Challenges: With no prior knowledge on predictive models and conducting predictive analysis, felt a bit challenging.

Addressed this by learning about these terms from different online resources and gaining some knowledge on the same.

Time Taken : 1 day.

Contributions as part of a Team:

1. Initially participated in the team meetings to discuss about the project requirements and finalizing the data sets and setting up the final objectives of the project.

Challenges: Finding the right set of data sets and fixing the objectives is a bit tedious job.

Addressed by working collaboratively with team and referring different research works from web.

Time Taken: 2 days.

2. Discussed the objectives of the project once again with team members to make sure that each individual does the analysis in a proper way without any deviations.

Time Taken: 1 hour.

3. Participated in Team discussions to combine all the individual analysis and results like merging the code into one common file.

Challenges: Many errors occurred while merging the code and resolved all the conflicts by discussing in the team meeting.

Addressed all the errors that are occurred from my analysis by rectifying the mistakes that occurred while merging.

Time Taken: 2 days.

4. Collaboratively worked on finalizing the report by combining each individuals work in a sequence so that the report will clearly explain the study conducted and how the results define the objectives of the project that are set up during intial discussion.

Challenges: Writing the report within the limited length by covering all the required topics that are related to the project.

Addressed by minimizing the explanations wherever possible and made sure that no part of the report is over detailed.

Time Taken: 1 day.