# Project Design Phase 1
## Solution Architecture
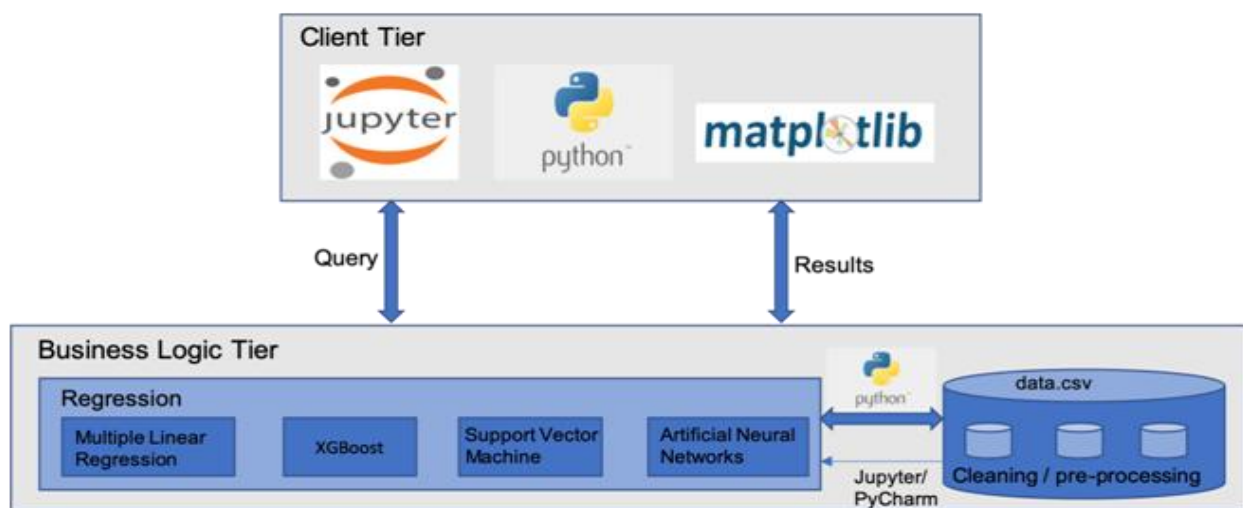
| Date | 13 October 2022 |
|---|---|
| Team ID | PNT2022TMID02503 |
| Project Name | Machine Learning Based Vehicle Performance Analyzer |
| Maximum Marks | 4 marks |

## Solution Architecture:

As shown in Figure design is adopted as the dataset is not created explicitly for this research, a publicly available dataset is used and is in structured format.

❖ The first and major step for any research is data cleaning and pre-processing without which the results obtained might be inappropriate.
❖ Python is used for cleaning and also to develop models. In the computational layer or the business logic tier the data is cleaned, pre-processed, transformed.
❖ The models built are evaluated and in the presentation layer using relevant software and tools the results are visualized.

## Solution Architecture Diagram:



(Figure 1 Solution Architecture diagram)

## References:

Fayyad, U. M., Haussler, D. and Stolorz, P. E. (1996). Kdd for science data analysis: Issues and examples., KDD pp. 50-56.