Project Design Phase 2
Technology Stack

Date	10 May 2023
Team ID	NM2023TMID15077
Project Name	Traffic Intelligence: Advanced Traffic Volume Estimation with Machine Learning

Technology Architecture
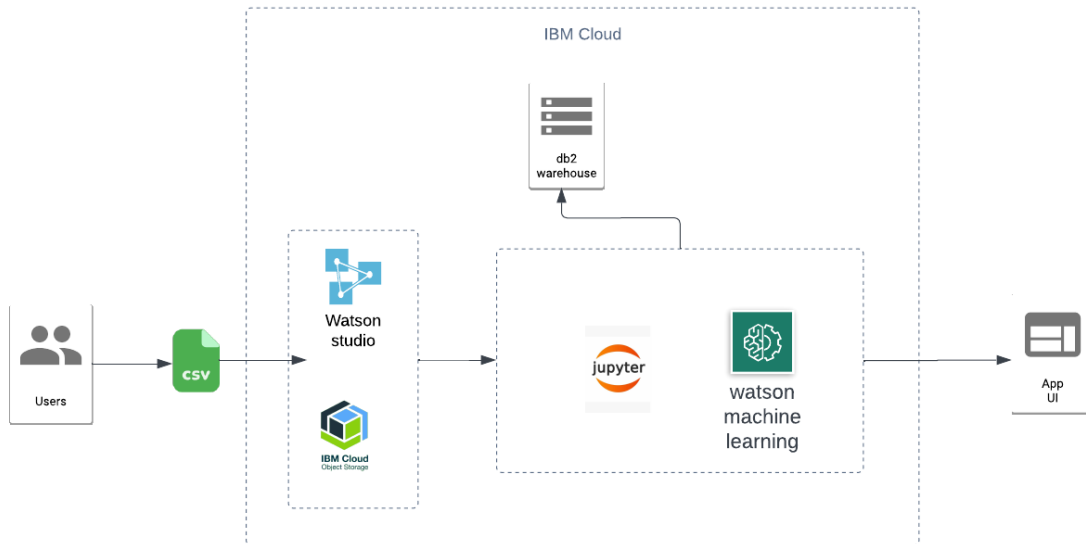
Components and Technologies

S.No	Component	Description	Technology
1	User interface	User can interact with an interface	HTML,CSS,JavaScript
2	Application Logic-1	To read and analyze	Python
3	Application Logic-2	To deploy model in cloud	IBM Watson Studio service
4	Application Logic-3	To deploy model locally	Flask
5	File storage	Storing data and model	IBM cloud object storage
6	Cloud Database	Database service on cloud	IBM DB2
7	External Data	Train the model	CSV
8	Machine Learning Model	To perform analysis	Regression

Application Characteristics

S.No	Component	Description	Technology
1	Opensource framework	python for data analysis,web framework for deploy model,notebook to create and share document that contain live code, equations, visualizations, and text	python,Flask,jupyter
2	Cloud Application	cloud for data storage and model deployment	IBM cloud object storage,Watson Studio
3	Performance	consideration for/ model accuracy	scikit-learn