

Project Design Phase-II Technology Stack (Architecture & Stack)

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

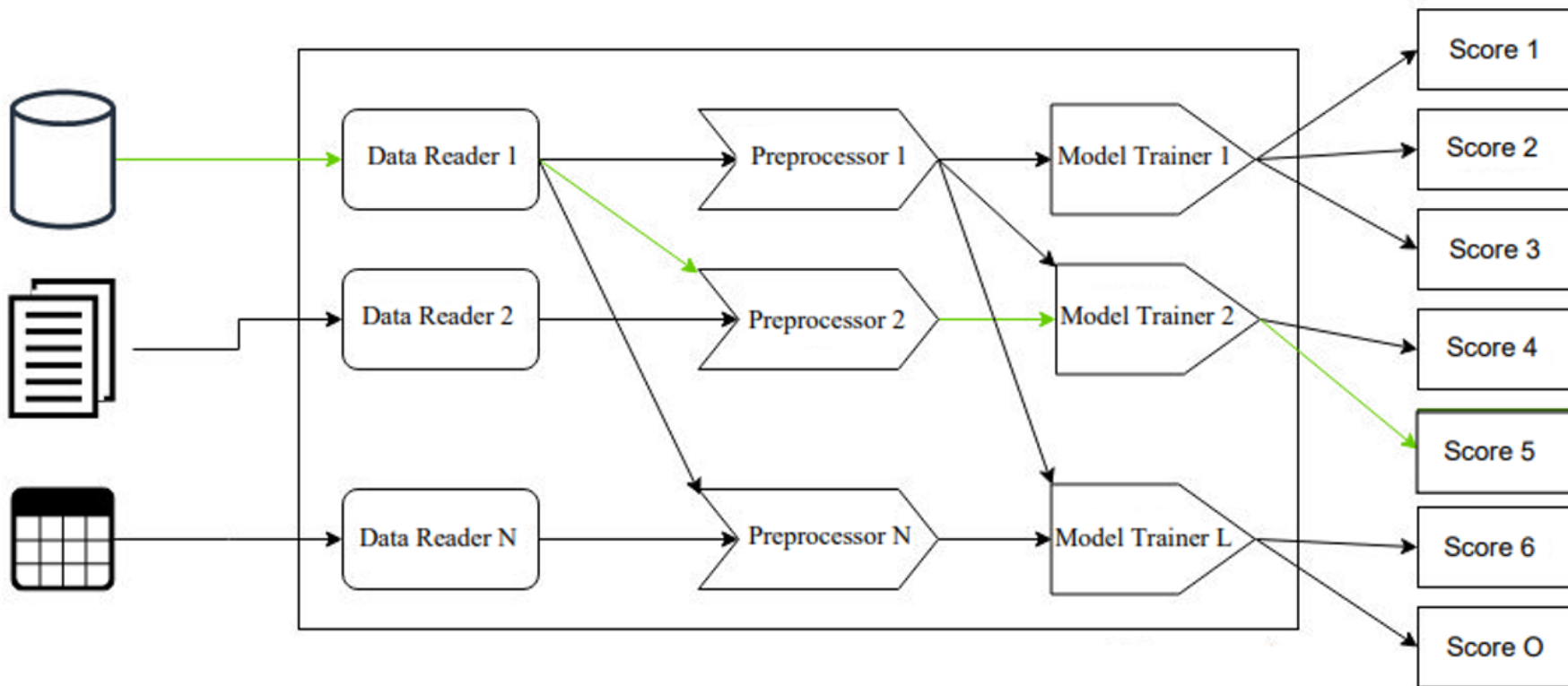


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM WatsonSTT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	A Machine Learning Project that uses Random Forest Regressor model to predict used cars price bases on some attributes such as kilometers driven, age, number of previous owners etc..	Machine Learning.
2.	Security Implementations	Price prediction uses an algorithm to analyze a product or service based on its characteristics, demand, and increases the security level.	Random Forest Regressor Model
3.	Scalable Architecture	Scalability is maximum due to accurate estimation.	jQuery, cloudflare, Bootstrap.
4.	Availability	Based on our decision tree vector; Age, Auto AC, KM, and Quarterly Tax seem to be the top predictors of car price.	OLX, CARS24
5.	Performance	By performing different ML models, we aim to get a better result or less error with max accuracy. Our purpose was to predict the price of the used cars having 25 predictors and 509577 data entries.	Hardware and support systems, software applications.

