

PROJECT DESIGN PHASE – II

Technology Architecture

Date	29.10.2022
TeamID	PNT2022TMID16117
Project Name	Car Resale Value Prediction

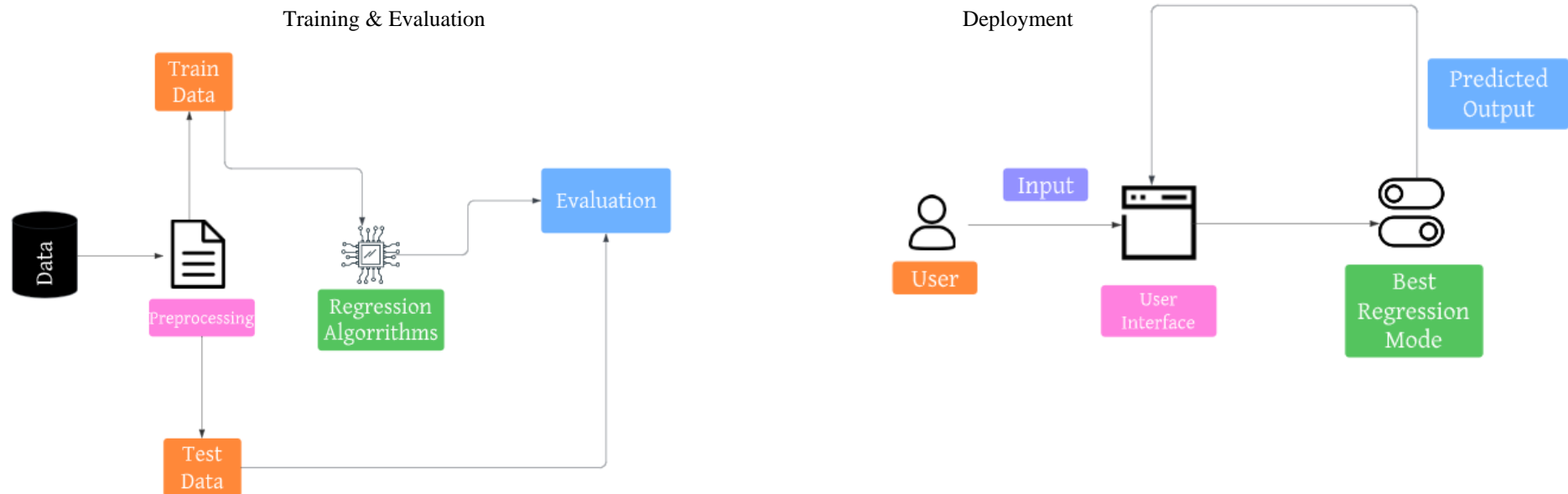


Table- 1 : Components & Technologies:

S.No	Components	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI.	HTML, CSS, JavaScript
2.	Preprocessing	Preprocess the training data.	Python - sklearn, pandas
3.	Train & Test dataset split	Splitting dataset for evaluation	Python – sklearn
4.	Machine Learning Model	To recognize patterns in the dataset.	Regression algorithm
5.	Infrastructure	Application Deployment on Local system and IBM cloud.	IBM cloud

Table- 2: Application characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask, TensorFlow, python	HTML, CSS, Python
2.	Scalable Architecture	The Application will be deployed in IBM cloud. Three tires are IBM cloud, Web service and can be accessible using the internet.	IBM cloud
3.	Availability	Since the application is deployed in the cloud environment it ensures the availability.	IBM cloud
4.	Performance	Keras ensures the performance of the model by using GPU in host system.	Python, IBM cloud