# PROJECT DESIGN PHASE – II

# Technology Architecture

| Date | 12.10.2022 |
|---|---|
| **TeamID** | PNT2022TMID18073 |
| **ProjectName** | Car Resale Value Prediction |
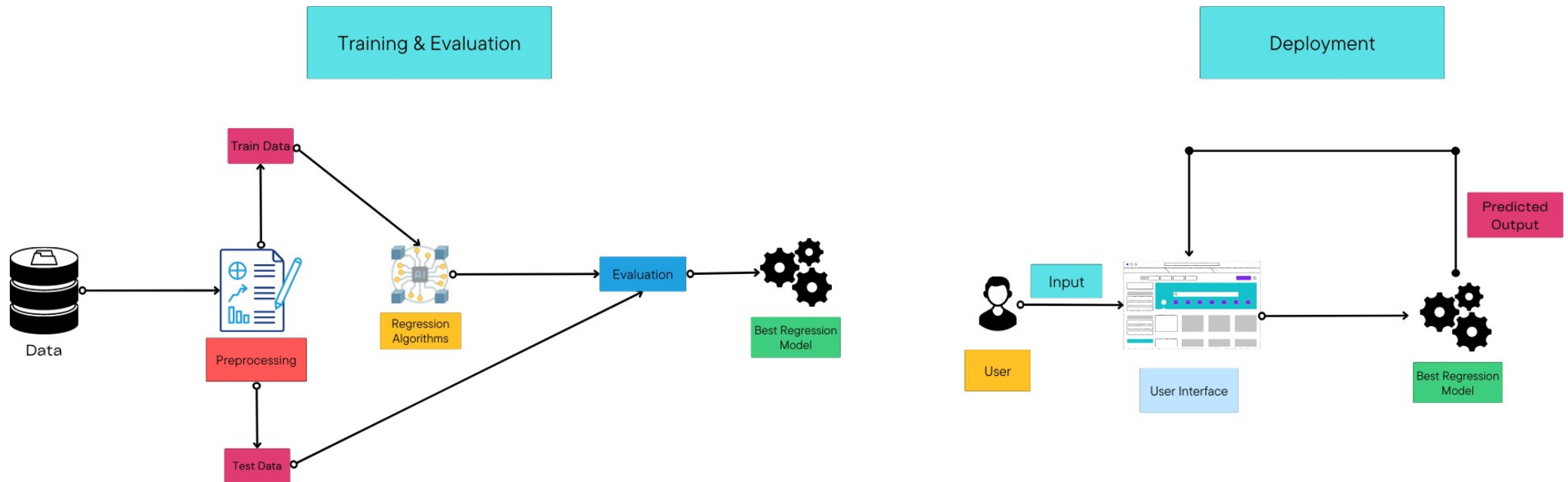
## Table- 1 : Components & Technologies:

| 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, 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 | Machine learning Algorithm ensures  the performance of themodel by using GPU in host system. | Python, IBM cloud |