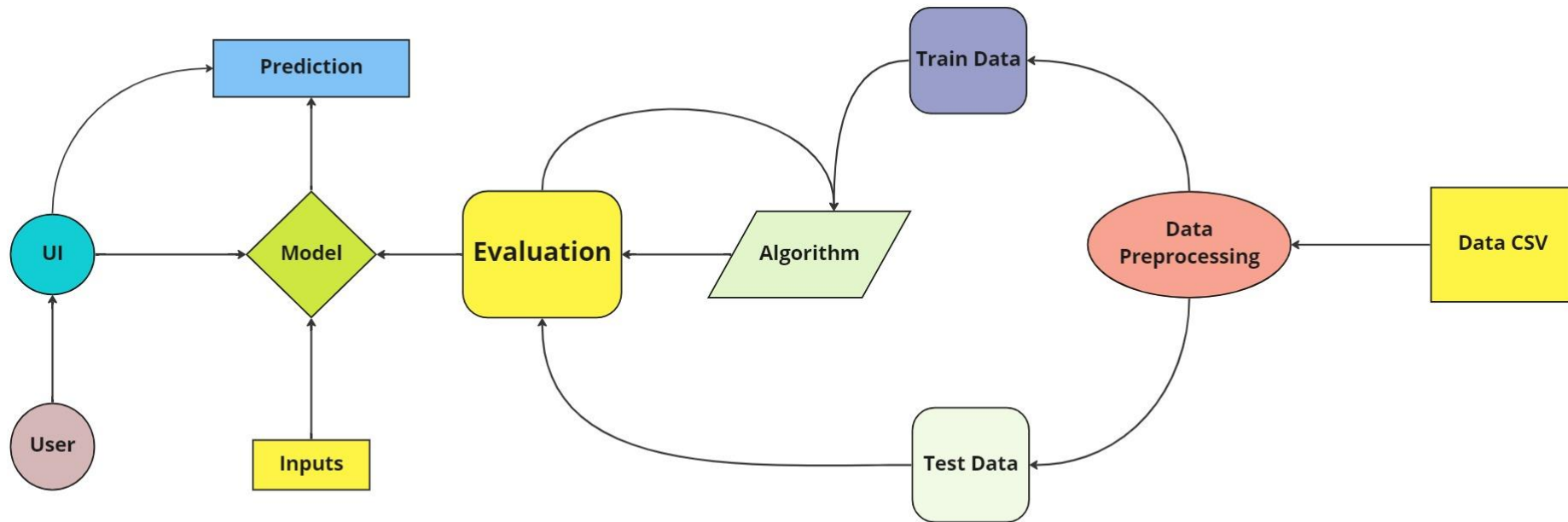


## Technology Architecture

|              |   |
|--------------|---|
| Date         | 03 November 2022                            |
| TeamID       | PNT2022TMID10456                            |
| ProjectName  | Project–UniversityAdmitEligibilityPredictor |
| MaximumMarks | 4 Marks                                     |

### TechnicalArchitecture:



**Table-1:Components&Technologies:**

| S.No | Component                 | Description                             | Technology   |
|------|---------------------------|---|--|
| 1    | User Interface            | The Front-end part of the application   | HTML,CSS   |
| 2    | Application Logic-1       | Logic for a process in the application  | Python   |
| 3    | Application Logic-2       | Logic for a process in the application  | IBM Watson   |
| 4    | Application Logic-3       | Logic for a process in the application  | IBM Watson   |
| 5    | Database                  | Data type ,Configuration.               | IBM cloud  |
| 6    | Cloud Database            | Database services on cloud              | IBM DB2,IBM Cloudant,etc.  |
| 7    | Libraries                 | Import Libraries into data              | Numpy,Pandas,Seaborn,Matplotlib  |
| 8    | File Storage              | File storage requirements               | Local File System  |
| 9    | Machine Learning Model    | Purpose of Machine Learning Model       | Admission Prediction Model   |
| 10   | Training and testing data | Purpose of training and testing data    | Logistic Regression algorithm  |
| 11   | Accuracy                  | Accuracy of the tested and trained data | Root Mean Squared Logarithmic Error(RMSLE),Mean Squared Error(MSE),Statistics. |
| 12   | Infrastructure            | Cloud Local Server Configuration        | Local  |

**Table-2:ApplicationCharacteristics:**

| S.No | Characteristics          | Description   | Technologies Used   |
|------|--------------------------|---|---------------------|
| 1    | Open-Source Frameworks   | The opensource Framework used here is python.                                       | Flask Framework     |
| 2    | Security Implementations | The user profile has been stored in a secured way in the cloud.                     | Encryptions         |
| 3    | Scalable Architecture    | Many computations can be done in a time saving and effective way using ML.          | Logistic Regression |
| 4    | Availability             | Our web application is available at anytime and at any place                        | IBM Balancer        |
| 5    | Performance              | As logistic regression is applied to develop the performance will be more effective | Logistic Regression |