

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

| | |
|---------------|---|
| Date | 03 October 2022 |
| Team ID | PNT2022TMID04534 |
| Project Name | Project - Exploratory Analysis of Rainfall data in India for agriculture. |
| Maximum Marks | 4 Marks |

Functional Requirements:

Following are the functional requirements of the proposed solution.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|-------------------------------|--|
| FR-1 | Import necessary packages | Importing packages like NumPy,pandas etc. |
| FR-2 | Download and load dataset | Download the dataset.Load the appropriate dataset for the model. |
| FR-3 | Preprocessing | Making a suitable data for building the model. |
| FR-4 | Built Machine learning model | Choose the best and optimised algorithm. |
| FR-5 | Train the data | Train the model with the help of training data |
| FR-6 | Test the model | Test the model for best performance ,optimisation,evaluation and analysis. |

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | The application can be used by the customers or persons easily. |
| NFR-2 | Security | Security is provided .So it is safe to use the application and no problems will occur. |
| NFR-3 | Reliability | Supporting the application.Detect the problems and rectify it. |
| NFR-4 | Performance | This model will provide output with high accuracy,. |
| NFR-5 | Availability | Any person can use this application at any time and at anywhere. |
| NFR-6 | Scalability | It provide better automation,enhanced modulation and cost effectiveness. |