

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

Date	21 st October 2022
Team ID	PNT2022TMID54006
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	To import the necessary packages	Packages like NumPy, pandas should be imported
FR-2	Downloading and loading the dataset	The dataset should be downloaded and the appropriate dataset is loaded
FR-3	The data is pre-processed	The data is made suitable to build a reliable model
FR-4	Constructing the machine learning model	The best algorithm is chosen and checking the optimised result.
FR-5	The data is trained	The model is trained using the training data.
FR-6	The model is tested	To evaluate the model is tested and analysed thoroughly

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	This model can be used in all places such as remote villages, metropolitan cities etc and it can be used by all without age limit.
NFR-2	Security	The user can use the model without security issues and in addition to that the model doesn't require any personal details.
NFR-3	Reliability	With the help of a supporting device and an uninterrupted connection we can get better results.
NFR-4	Performance	The model is highly accurate in prediction.

NFR-5	Availability	This model is highly available and it can be used by all age groups without any restrictions
NFR-6	Scalability	People such as farmers, greengrocers can highly benefit from this.