SOLUTION REQUIREMENTS
(Functional & Non-functional)

Team ID	PNT2022TMID06285
Project Name	Project- **"Exploratory Analysis Of Rainfall Data In India For Agriculture"**

Functional Requirements:

Following are the functional requirements of our proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	**Download and load the dataset**	Download and load the appropriate dataset.
FR-2	**Pre-processing of data**	Preparation of raw data and make it suitable for building of machine learning model.
FR-3	**Building machine learning model**	✓ Exploring the data and choose the suitable algorithm. ✓ Prepare and clean the dataset. ✓ Split the prepared dataset and make cross validation. ✓ Perform machine learning optimisation. ✓ Deploy the model.
FR-4	**Train the data**	Train the model using training set.
FR-5	**Test the data**	At last, test the model for evaluation of final model.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Local presence/traceability of WIS source in the farming community.
NFR-2	**Security**	Providing secure system networks then determine authenticity, originality and security.
NFR-3	**Reliability**	System will operate without failure for a specific period of time.
NFR-4	**Performance**	Our model predictions are same as the true values. So, the performance is higher.
NFR-5	**Availability**	Available to different groups of farmers including women, older persons, etc.
NFR-6	**Scalability**	In our model, Prediction of data will be faultless.