PROPOSED SOLUTION

TEAM ID	PNT2022TMID17010
PROJECT NAME	Exploratory Analysis of Rain Fall Data in India for Agriculture

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	 Climate is a important aspect of human life. So, the Prediction should accurate as much as possible. In this paper we try to deal with the prediction of the rainfall which is also a major aspect of human life and which provide the major resource of human life which is Fresh Water. Now climate change is the biggest issue all over the world. Peoples are working on to detect the patterns in climate change as it affects the economy in production to infrastructure
2.	Idea / Solution description	In rainfall also making prediction of rainfall is a challenging task with a good accuracy rate. Making prediction on rainfall cannot be done by the traditional way, so scientist is using machine learning and deep learning to find out the

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		pattern for rainfall
		prediction.
		 Provides extra support to
		maintain the agriculture.
3.	Novelty / Uniqueness	 This application is useful
		for the beginners in
		agriculture.
		 Seed maturity selection
		features are available.
4.	Social Impact / Customer	• Different types of crops can be
	Satisfaction	planted for good health.
		 Helps in producing healthy
		crops and good fields.
5.	Business Model (Revenue	• This comparative study is
	Model)	conducted concentrating on the
		following aspects: modeling
		inputs, Visualizing the data,
		modeling methods, and pre-
		processing techniques. The
		results provide a comparison of
		various evaluation metrics of
		these machine learning
		techniques and their reliability
		to predict rainfall by analyzing
		the weather data. We will be
		using classification
		algorithms such as
		Decision tree, Random forest,
		KNN, and xgboost.
6	Scalability of the Solution	When we predict rainfall
	_	correctly, it helps growth
		of crop
		and yielding will be better.