

DESIGN PHASE 1-PROPOSED SOLUTION

Project Name	Exploratory Analysis of Rain Fall Data in India for Agriculture
Team ID	PNT2022TMID40045
Date	16 Oct 2022
Max Marks	2 Marks

S.NO.	Parameter	Description
1.	Problem Statement. (Problem to be solved)	<ul style="list-style-type: none">Indian agriculture mainly depend on the rainfall rate, major amount of cultivation is done based on the rain.If the rain fall rate is low then automatically the productivity in agriculture is also low. .

2.	Idea /Solution Description.	<ul style="list-style-type: none"> ▪ We are going to predict the future rain fall rate based on the past years. ▪ If we predict the future rain fall rate then automatically it will reflect on agriculture then it increases the income in agriculture. ▪ Agriculture productivity in India play important role in economy of country. ▪ Indian agriculture is mainly based on the old traditional way of cultivation. ▪ We can replace the traditional way of cultivation with new way of using past data and statistics.
3.	Novelty / Uniqueness.	<ul style="list-style-type: none"> ▪ Rainfall prediction using dataset and linear regression of applied data science.
4.	Social Impact / Customer satisfaction.	<ul style="list-style-type: none"> ▪ This proposed system provides many facilities which helps the farmers to maintain the crop field without much loss in protecting the crops from sudden rainfall.
5.	Business Model (Revenue Model).	<ul style="list-style-type: none"> ▪ This prototype can be developed as product with minimum cost with high performance.
6.	Scalability of the solution	<ul style="list-style-type: none"> ▪ This can be developed to a scalable product by using Dataset and handling missing values and Analysing the data in cloud and operation is performed using linear regression.