

Project Design Phase-II
Proposed Solution Template

Date	19 September 2023
Team ID	Team-591539
Project Name	Project -Machine Learning Approach For Predicting The Rainfall
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To prevent problems faced due to unexpected rain.
2.	Idea / Solution description	An application which incorporates neural networks to predict rainfall based on real-time and historical data.
3.	Novelty / Uniqueness	Models are designed with the end-users in mind and use neural networks which provide more accurate and consistent prediction. Also, It providing alerts and suggesting precautionary measures before hand.
4.	Social Impact / Customer Satisfaction	rainfall prediction can lead to economic stability and growth by reducing crop losses

		as well as help governments and relief agencies prepare for and respond to water shortages.
5.	Business Model (Revenue Model)	a freemium model app that offers basic rainfall predictions for no cost and advanced features like daily alerts and suggesting precautionary measures also customizable forecasts and reports based on their specific needs for a monthly fee.(subscription type)
6.	Scalability of the Solution	To make a rainfall prediction model more scalable, employ distributed computing resources, like cloud platforms, to process and analyze vast datasets efficiently.Regularly update and optimize the model to accommodate evolving meteorological data and ensure seamless scalability. Also, collaborating with weather analyzing companies for more accurate predictions and user friendly results.