

Project Initialization and Planning Phase

Date	15 March 2024
Team ID	738289
Project Title	Rainfall Prediction Using Machine Learning
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

Project Overview	
Objective	Prediction Of amount of rain in a specific well division in advance by using various Regression analysis
Scope	Developing the most accurate rainfall prediction model
Problem Statement	
Description	We predict the Rainfall by Separating the dataset into training set and test set and we apply different machine learning approaches
Impact	Explain the implications of solving the problem
Proposed Solution	
Approach	Outline the methodology and techniques to be used
Key Features	Highlight the unique aspects of the proposed solution

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		

Computing Resources	CPU/GPU specifications, number of cores	2 x NVIDIA V100 GPUs
Memory	RAM specifications	8 GB
Storage	Disk space for data, models, and logs	1 TB SSD
Software		
Frameworks	Python frameworks	Flask
Libraries	Additional libraries	scikit-learn, pandas, numpy
Development Environment	IDE, version control	Jupyter Notebook, Git
Data		
Data	Source, size, format	Kaggle dataset, 10,000 images