Model Development Phase Template

Date	14 July 2024
Team ID	740073
Project Title	Exploratory Analysis of Rain Fall Data in India for Agriculture
Maximum Marks	5 Marks`

Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
Year	The year of the recorded rainfall data	Yes	Important for analysing long-term trends and patterns in rainfall.
Month	The month of the recorded rainfall data	Yes	Critical for seasonal analysis and understanding monthly rainfall distribution.
Day	The day of the recorded rainfall data	No	Daily granularity may not significantly improve model performance and could introduce noise.
Rainfall Amount	The amount of rainfall recorded (in mm)	Yes	Core variable for the analysis; directly related to the objective of the study.
Seasonal Average	The average rainfall for a particular season	Yes	Helps in understanding seasonal patterns and variations in rainfall.
Temperature	The temperature recorded alongside rainfall data	Yes	Useful for understanding the interplay between temperature and rainfall on crop growth.
Humidity	The humidity level recorded alongside rainfall data	Yes	Relevant for analysing the combined effect of humidity and rainfall on agriculture.

Wind Speed	The wind speed recorded alongside rainfall data	No	Typically has less direct impact on rainfall patterns and crop growth compared to other selected features.
Historical Rainfall	Historical rainfall data (lagged values)	Yes	Provides context and trends, useful for predictive modeling of future rainfall patterns.