

Feature	Description	Selected (Yes/No)	Reasoning
Temperature	Air temperature	Yes	Strong correlation with rainfall; impacts evaporation.
Humidity	Relative humidity	Yes	Directly affects rainfall; crucial for prediction.
Wind speed	Speed of wind	Yes	influences weather patterns and rainfall distribution.
pressure	Atmospheric pressure	yes	Effects the weather and rain fall distibution

## Model Development Phase Template

Date	20 June 2024
Team ID	739637
Project Title	Rain fall prediction using ml
Maximum Marks	5 Marks

## Feature Selection Report Template

Selected features include rainfall, temperature, humidity, wind speed, and pressure. Removed irrelevant features, used correlation analysis and domain expertise to retain impactful variables for model accuracy.

Self_Employed	Self-employment status	Yes	Self-employed individuals may have different financial profiles.
Applicant Income	Income of the applicant	Yes	It is crucial in determining the applicant's financial capacity.

Co-applicant Income	Income of the co-applicant	Yes	Combined income provides a more accurate picture of financial stability.
Loan Amount	Amount of loan applied	Yes	Fundamental for assessing the financial magnitude of the loan.
Loan Amount Term	Term of the loan (in months)	Yes	The loan term influences monthly repayments and impacts eligibility.
Credit_Histo ry	Credit history of the applicant	Yes	A major factor in loan approval is reflecting the applicant's creditworthiness.
Loan_Status	Loan approval outcome	Yes	The target variable for predictive modeling – is essential for the project's goal.