



Model Development Phase

Date	23 July 2025
ProjectName	Machine Learning Approach for Employee Performance Prediction
Maximum Marks	

Feature Selection Report:

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
Month	Month of the year	No	For predicting the performance, month is not required.
quarter	specific time period of a year	Yes	Indicates the overall performance in a quarter
department	Type of work	Yes	Defines the type of work done by the employee
day	day of the week	Yes	affects the score of the model

Feature	Description	Selected (Yes/No)	Reasoning
Team	Team number	Yes	affecting the score of the model
Targeted productivity	Expected productivity from the employee	Yes	major factor for reflecting employee's achievability
SMV	Standard Minute Value for particular work	Yes	Fundamental for assessing the productivity of employee
Over_time	additional work time	Yes	relevant for assessing work done
Incentive	Amount paid to the employee	Yes	incentive can impact the quality of work
idle_men	number of men not working during work time	No	Mostly contain Null values
idle_time	period during which a employee remain unproductive	No	Mostly contain Null values
No.of style change	number of styles changed during a shift	Yes	Can negatively impact the productivity.
No.of workers	number of workers allotted on a task	Yes	highly correlated to the target variable
Actual productivity	Performance Outcome	Yes	The target variable for predictive modeling is essential for the project's goal.