

Initial Project Planning Report

Date	25-06-2024
Team ID	NONE
Project Name	Employee Performance Prediction using Machine Learning

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Member	Sprint Start Date	Sprint End Date (Planned)
Sprint-1	Data Collection and Preprocessing	SL-1	Understand and load dataset	High	Vansh	23-06-2025	30-06-2025
Sprint-1	Data Collection and Preprocessing	SL-2	Handle missing values (e.g., wip column)	High	Vansh	23-06-2025	30-06-2025
Sprint-1	Data Collection and Preprocessing	SL-3	Encode categorical variables (Quarter, Department)	Medium	Vansh	23-06-2025	30-06-2025
Sprint-1	Exploratory Data Analysis (EDA)	SL-4	Perform EDA: correlation analysis, histograms, box plots	High	Vansh	23-06-2025	30-06-2025
Sprint-1	Exploratory Data Analysis (EDA)	SL-5	Generate visualizations (correlation matrix, feature distributions)	Medium	Vansh	23-06-2025	30-06-2025
Sprint-2	Model Building and	SL-6	Train Linear Regression	Medium	Vansh	30-06-2025	07-07-2025

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Member	Sprint Start Date	Sprint End Date (Planned)
	Evaluation		model				
Sprint-2	Model Building and Evaluation	SL-7	Train Random Forest model	High	Vansh	30-06-2025	07-07-2025
Sprint-2	Model Building and Evaluation	SL-8	Train XGBoost model	Medium	Vansh	30-06-2025	07-07-2025
Sprint-2	Model Building and Evaluation	SL-9	Evaluate models using R ² score and compare performance	High	Vansh	30-06-2025	07-07-2025
Sprint-3	Model Tuning and Testing	SL-10	Fine-tune Random Forest (best model) using hyperparameter tuning	High	Vansh	07-07-2025	14-07-2025
Sprint-3	Model Tuning and Testing	SL-11	Test final model on validation set	Medium	Vansh	07-07-2025	14-07-2025
Sprint-3	Model Tuning and Testing	SL-12	Save trained model and feature columns for deployment	High	Vansh	07-07-2025	14-07-2025
Sprint-3	Web Integration and Deployment	SL-13	Design Flask web interface for input form	Medium	Vansh	07-07-2025	14-07-2025
Sprint-4	Web Integration and Deployment	SL-14	Integrate trained model with Flask backend	High	Vansh	14-07-2025	21-07-2025
Sprint-4	Web Integration and	SL-15	Test end-to-end prediction flow (input → output)	Medium	Vansh	14-07-2025	21-07-2025

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Member	Sprint Start Date	Sprint End Date (Planned)
	Deployment						
Sprint-4	Project Report	SL-16	Prepare final project report (documentation, screenshots)	Medium	Vansh	21-07-2025	05-08-2025

Screenshot:

- Profile
- Skill Bank
- Skill Wallet
- Skill Card
- Job Board
- Subscription
- Transactions

AVAILABLE: 0

PROJECT DELIVERABLES

[Git Repo](#)
[Project Doc](#)
[Demo Link](#)

KANBAN BOARD

PROJECT DETAILS

TASK & PROGRESS

MENTOR REVIEW

DATA COLLECTION

BACKLOG

IN-PROGRESS

REVIEW

COMPLETE

TSK-331781

Download The Dataset

Progress(%)

0

Continue

VISUALIZING AND ANALYZING THE DATA

DATA PRE-PROCESSING

MODEL BUILDING

APPLICATION BUILDING

Smart Internz

AVAILABLE: 0

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TSK-331782

Importing The Libraries

Progress(%): 0

Comment

TSK-331785

Descriptive Analysis

Progress(%): 50

Comment

TSK-331783

Read The Dataset

Progress(%): 90

Comment

TSK-331784

Correlation Analysis

Progress(%): 90

Comment

Smart Internz

AVAILABLE: 0

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DATA PRE-PROCESSING

MODEL BUILDING

APPLICATION BUILDING

Build Python Code

Progress(%): 90

Comment

TSK-331797

Run The Application

Progress(%): 90

Comment

TSK-331798

Output

Progress(%): 90

Comment

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DATA COLLECTION

VISUALIZING AND ANALYZING THE DATA

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COMPLETE

TSK-331786

VT

Checking For Null Values

Progress(%)

50

Comment

TSK-331788

VT

Handling Categorical Values

Progress(%)

50

Comment

TSK-331787

VT

Handling Date & Department Column

Progress(%)

90

Comment

TSK-331789

VT

Splitting Data Into Train And Test

Progress(%)

90

Comment