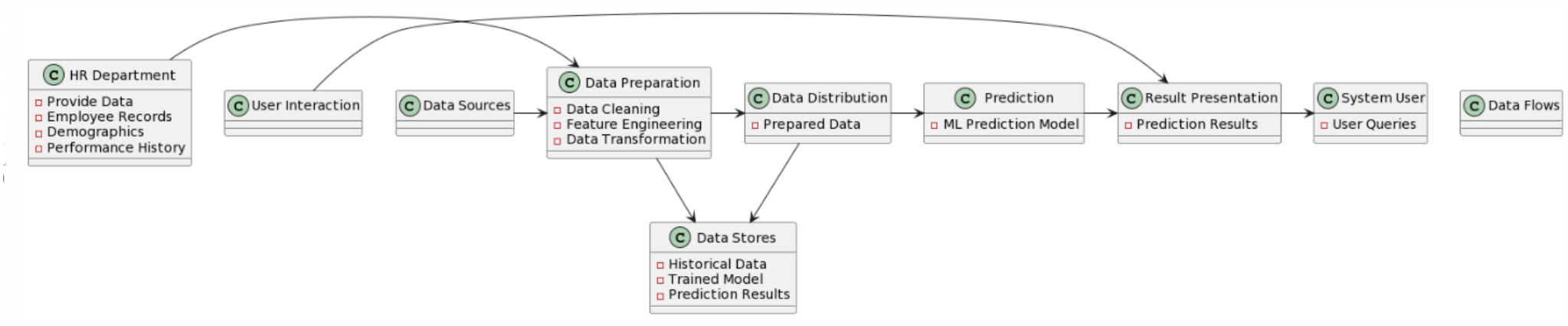
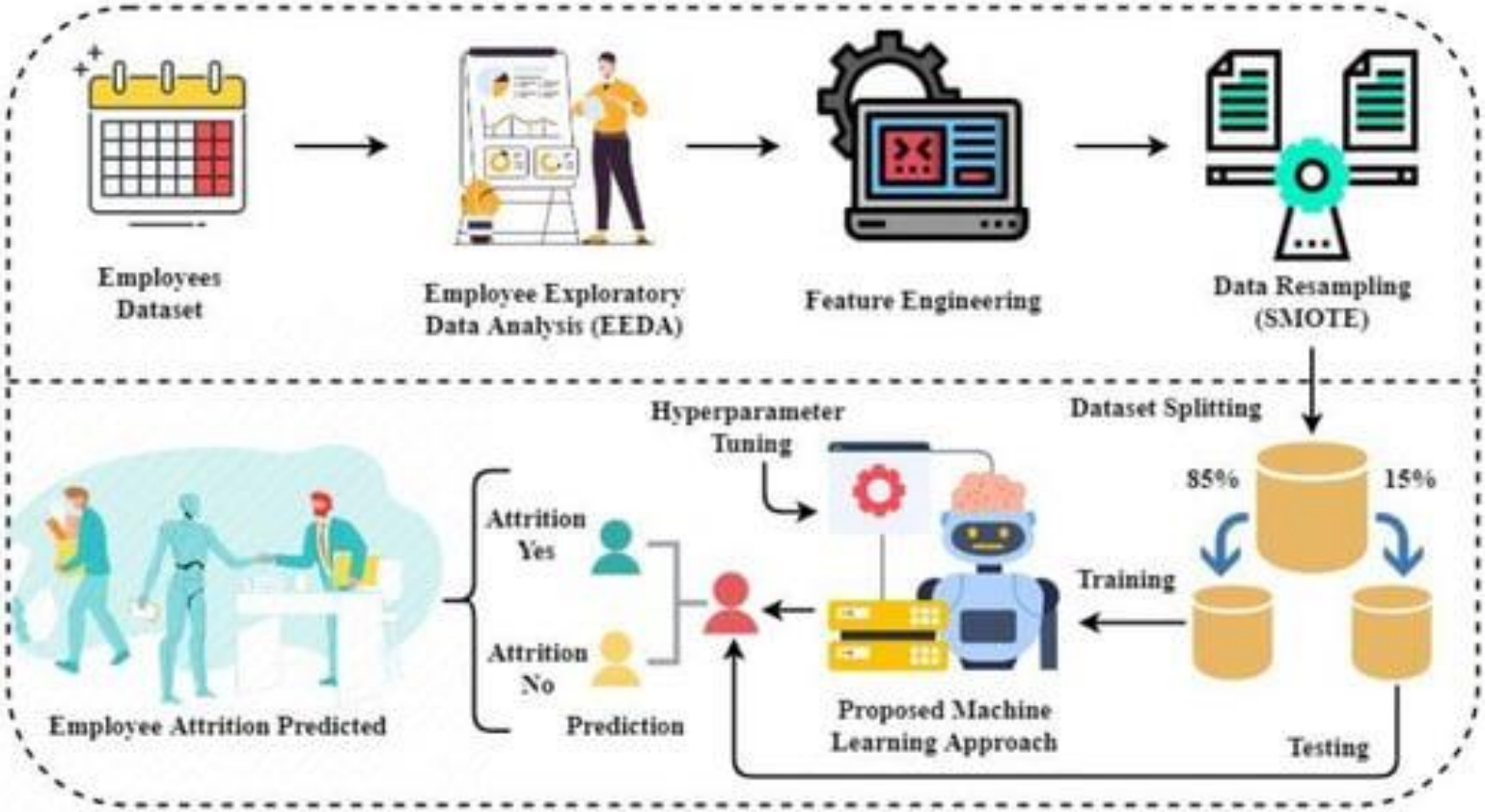
Project Design Phase-II
Data Flow Diagram & User Stories

Date	23 October 2023
Team ID	Team-593386
Project Name	Machine learning Approach for Employee Performance prediction
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.




Employees Dataset
Employee Exploratory Data Analysis (EEDA)
Feature Engineering
Data Resampling (SMOTE)
Dataset Splitting
85%
15%
Hyperparameter Tuning
Training
Testing
Proposed Machine Learning Approach
Attrition Yes
Attrition No
Prediction
Employee Attrition Predicted

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Employee	View their own predicted performance	USN-1	Employees should be able to view their own predicted performance, understand their strengths and weaknesses, and identify areas for improvement.	The system must allow employees to view their own predicted performance, along with the factors that influenced the prediction.	High	Sprint-1
Manager	Predict the performance of specific employees	USN-2	Managers need to predict the performance of specific employees with an accuracy of at least 80% to provide them with appropriate support and resources.	The system should allow managers to input specific employee details for performance prediction. The prediction results should meet an accuracy threshold of at least 80%. The system should provide managers with the predicted performance information and insights.	High	Sprint-1
	Generate a report of predicted employee performance	USN-3	Managers should be able to generate reports of predicted employee performance to identify trends and make informed decisions about their teams.	The system should allow managers to generate reports. The report should include employee ID, predicted performance, and factors influencing the prediction. Reports should be easily accessible and exportable.	High	Sprint-2
Human Resources	Manage employee performance predictions	USN-4	Human Resources representatives should have the ability to manage employee performance predictions, identifying high-performing employees and providing opportunities for growth while supporting low-performing employees.	The system should enable HR representatives to view, edit, and delete employee performance predictions. Access control and data protection measures should be in place.	Medium	Sprint-2
Administrator	Manage user accounts	USN-5	Administrators should manage user accounts, including adding, deleting, and editing user profiles as needed..	The system should provide administrators with features to add, delete, and edit user accounts. User account management	Medium	Sprint-2

				actions should be logged for auditing purposes.		
Administrator	Manage user accounts	USN-6	As an administrator, I want to be able to manage user accounts, so that I can add, delete, and edit users as needed.	The system must allow administrators to add, delete, and edit user accounts.	Medium	Sprint-1
	Manage system settings	USN-7	Administrators should manage system settings, such as prediction accuracy thresholds and the factors used for predictions.	The system should allow administrators to modify system settings, including prediction accuracy thresholds and the selection of influencing factors. System settings changes should be logged and auditable.	Medium	Sprint-1
Data Analyst	Analyze predicted employee performance data	USN-7	Data Analysts should analyze predicted employee performance data to derive insights and patterns that guide decision-making.	The system should allow Data Analysts to access the predicted performance data of employees. Data Analysts should have tools for data exploration and analysis, including statistical and visualization features. Data Analysts should be able to create reports and visualizations to communicate their findings. Access to sensitive employee data should be controlled and monitored for compliance with data privacy regulations.	Medium	Sprint-3