Project Design Phase-II
Data Flow Diagram & User Stories

Date	02 November 2023
Team ID	Team-592109
Project Name	Airline Review Classification Using Machine Learning
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.

Data from Source 1

Data Collection

Data from Source 2

Data Collection

Data from Source n

Data Collection

Collected Data

Data Preprocessing

Train data

Training

MACHINE LEARNING

Import Model

Classification

User Application

Output

Gives Input
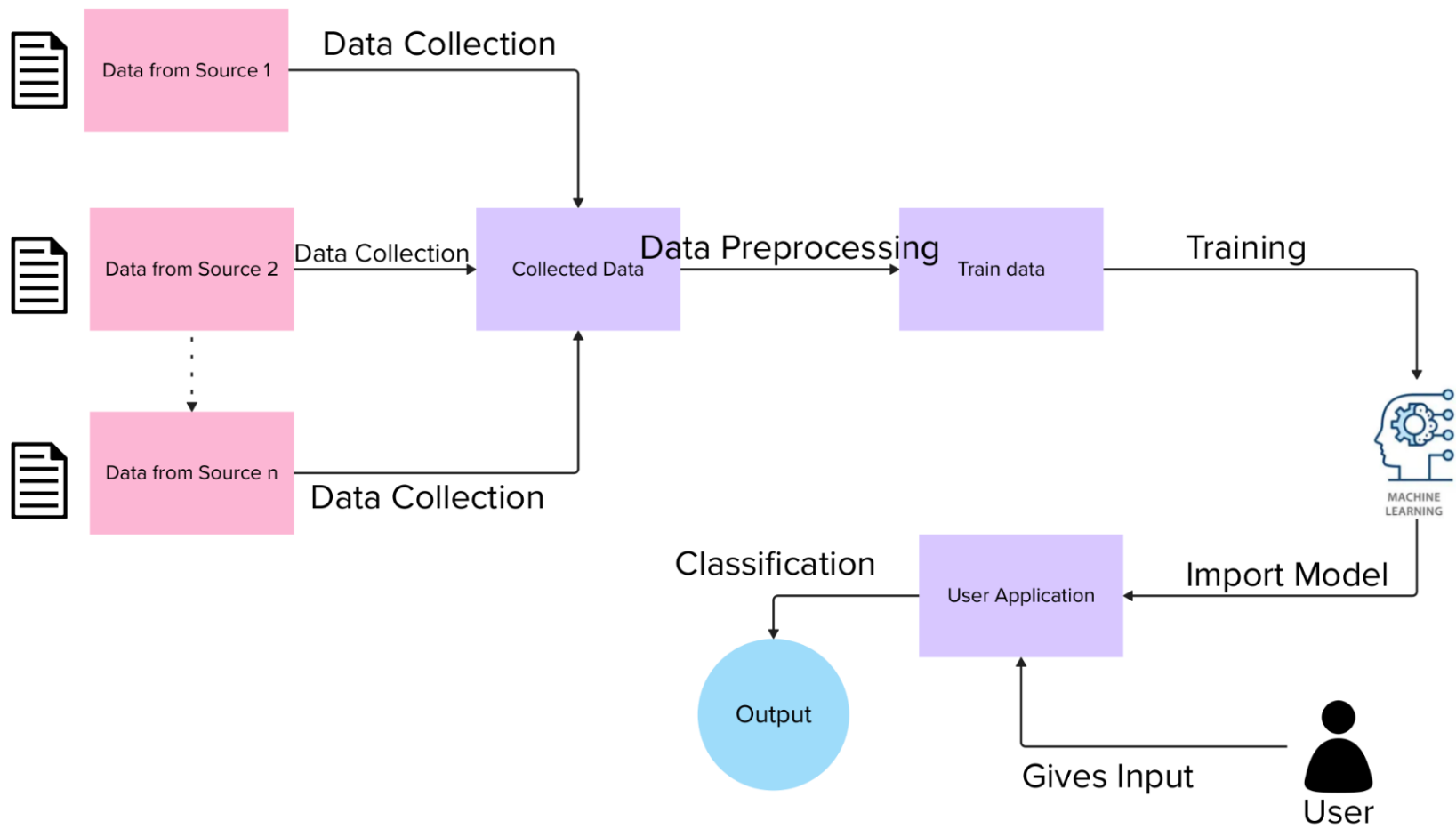
User

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
Airlines	Data Collection	USN-1	Collect a diverse dataset of airline reviews from social media, travel websites, and forums.	Successfully gather a dataset containing a variety of reviews from different sources.	High	Sprint-1
Data scientist	Preprocessing	USN-2	Preprocess the collected dataset by cleaning text, tokenizing, and converting it into numerical format.	Dataset is cleaned, tokenized, and prepared in a numerical format for machine learning models.	High	Sprint-1
Web developer	Model Deployment	USN-3	Deploy the best performing model as an API or web service for real-time sentiment analysis.	Model integrated into a user-friendly interface for sentiment analysis.	Low	Sprint-3
ML Enginee	Training	USN-4	Train multiple classification models (e.g., Decision Tree, Random Forest, XGBoost) on the preprocessed dataset.	Successfully train models and evaluate their performance.	Medium	Sprint-2
Tester	Integration	USN-5	Conduct thorough testing of the deployed model and the web interface for any issues or bugs.by entering email & password	Model and web interface functioning without errors, with appropriate fine-tuning based on user feedback.	Medium	Sprint-3