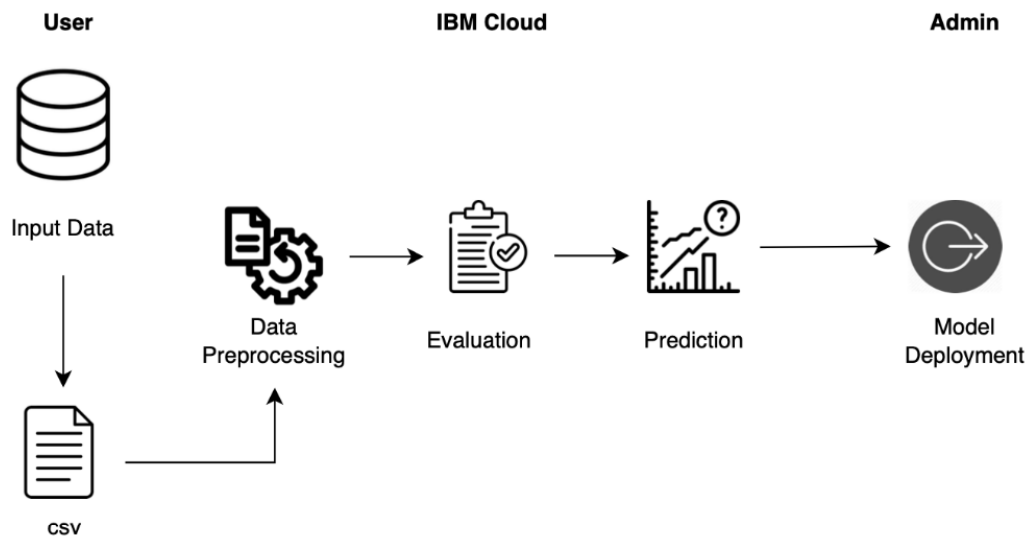


Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	20th November 2023
Team ID	Team-591827
Project Name	Unveiling Sentiments in Political Speeches
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2



Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services

5. Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Handles users registration, validation, and creation of users account. e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS,
2.	Application Logic-1	Logic for a process in the application	Python
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python's Flask
2.	User Friendly Interface	This provides an engaging or intuitive experience	HTML, CSS, Bootstrap, JavaScript, UI

		for users interacting with the application.	etc.
3.	Scalability/Availability	Justify the scalability of architecture (3 – tier, Micro-services)	Load Balancers, Docker, Caching, Database Replication, Scalable architecture designs.
4.	Third party integrations	Involves incorporating features or services from an external provider into existing application.	Bootstrap API