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

Date	16 October 2022
Team ID	PNT2022TMID18550
Project Name	DEMANDEST-AI POWERED FOOD DEMAND FORECASTER
Maximum Marks	4 Marks

Technical Architecture:

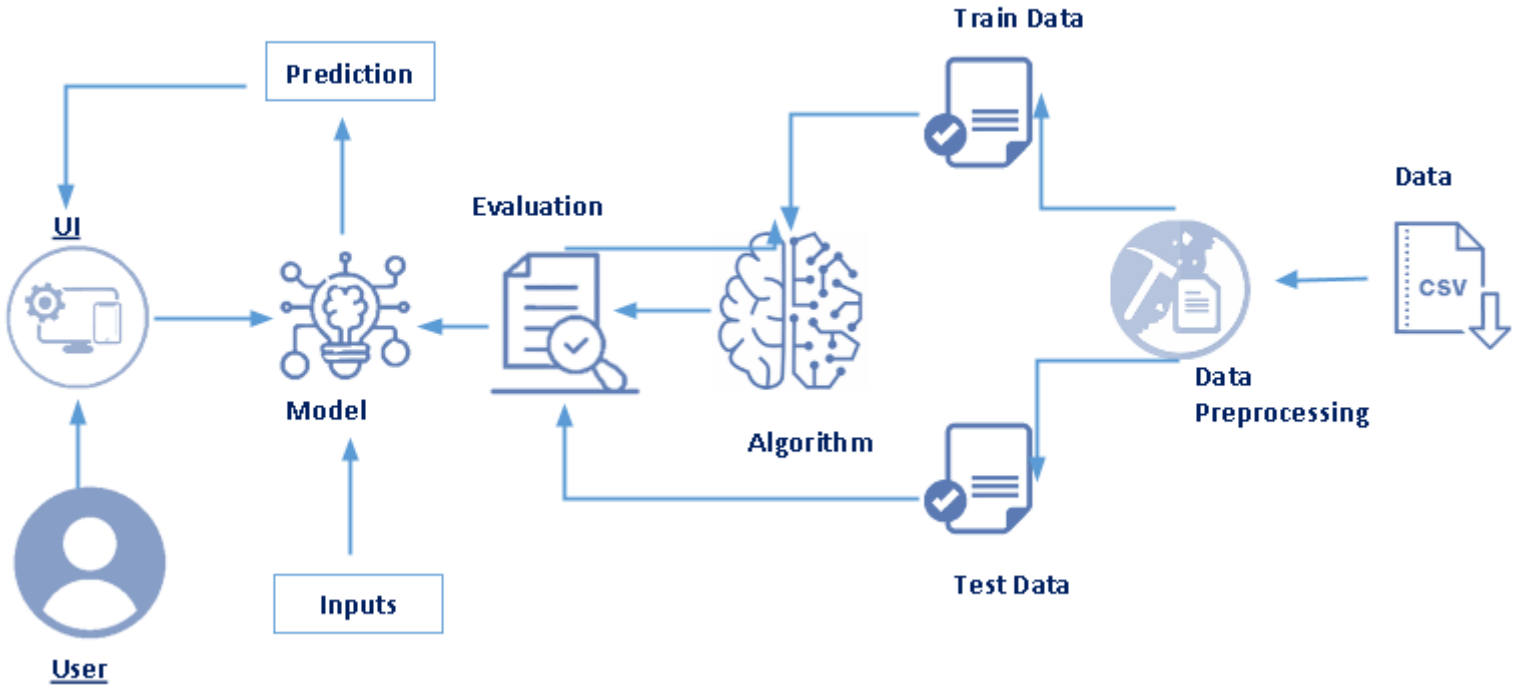

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User access to the application through mobile application	HTML
2.	Application Logic-1	Creating an application interface	Python
3.	Application Logic-2	Creating an AI assistant that gives food service to the user	IBM Watson Assistance
4.	Application Logic-3	Files are stored in the local storage and stored in the cloud	IBM Watson Assistant
5.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
6.	External API-1	Purpose of External API used in the application	IBM Location REST API, etc.
7.	Deep Learning Model	Creating an algorithm to calculate case information provides by the fulfillment center	Object Recognition Model, etc.
8.	Infrastructure (Server / Cloud)	IBM Cloud App Configuration is a centralized feature-management and configuration service on IBM Cloud.	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	This application has no open-source frameworks.	Python
2.	Security Implementations	Block chain technology is utilised to implement security since its private structure safeguards all data..	Blockchain
3.	Scalable Architecture	Users can acquire food services online, as well as information about the most popular products. In this strategy, customers profit from evaluating their industry data, which gives predictions on day-to-	IBM cloud

S.No	Characteristics	Description	Technology
		day analysis of food sold and reduces food waste by projecting sales movements.	
4.	Availability	Data is updated here, and demand is forecasted based on the data.	IBM Watson Assistant
5.	Performance	The geo-fencing algorithm is updated everyday and displays the contaminated zones' day-to-day updates.	Geo Fence