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

Date	03 October 2022
Team ID	PNT2022TMID42325
Project Name	AI-powered Nutrition Analyzer forFitness Enthusiasts
Maximum Marks	4 Marks

Technical Architecture

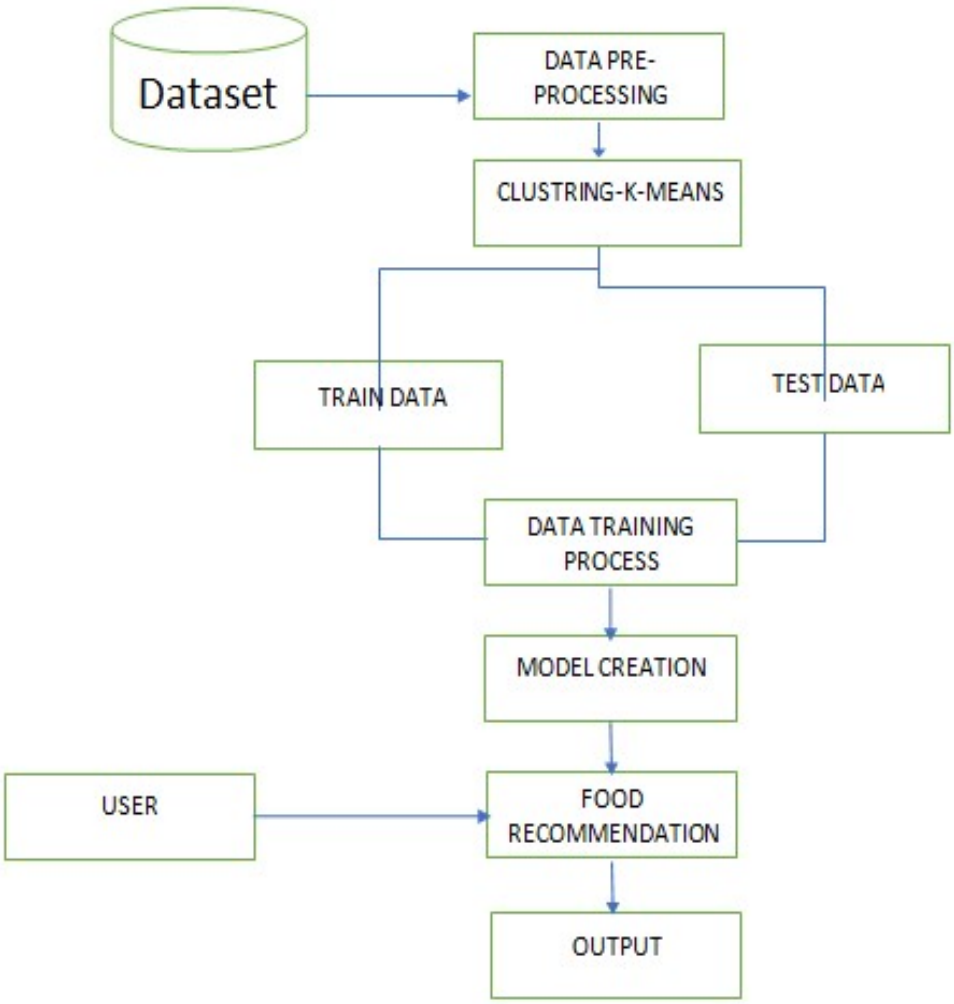

Table -1: Components & Technologies:

Following are the Components & Technologies of the proposed solution.

S.NO	Component	Description	Technology
1.	Application	User interacts with application for the prediction of Nutrition	Python
2.	Machine Learning	Purpose of Machine Learning Model	Deep Learning
3.	Machine Learning Model	Purpose of Machine Learning Model	Classification
4.	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn	ANN algorithm
5.	Data Input	Getting the person information.	CSV file
6.	Data processing	Upload the data and classify it.	the CSV file are loaded into Pandas data frame
7.	Data Classification	Identify the person's information.	K – Means Clustering
8.	Data description	Suggesting the diet plans	Classifications are made using algorithm

Table-2: Application Characteristics:

Following are the Application Characteristics requirements of the proposed solution.

S.NO	Characteristics	Description
1.	Usability	Datasets of all the food and nutrition used to detection the diet plans.
2.	Security	User and Data
3.	Reliability	The food quality and predicting the nutrition
4.	Performance	The performance is based on the quality of the food used for nutrition.
5.	Availability	It is available for all user to predict the diet plan.
6.	Scalability	Increasing the diet plan and nutrition