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

Date	16 October 2022
Team ID	PNT2022TMID32819
Project Name	Project - AI-Powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	4 Marks

Technical Architecture:

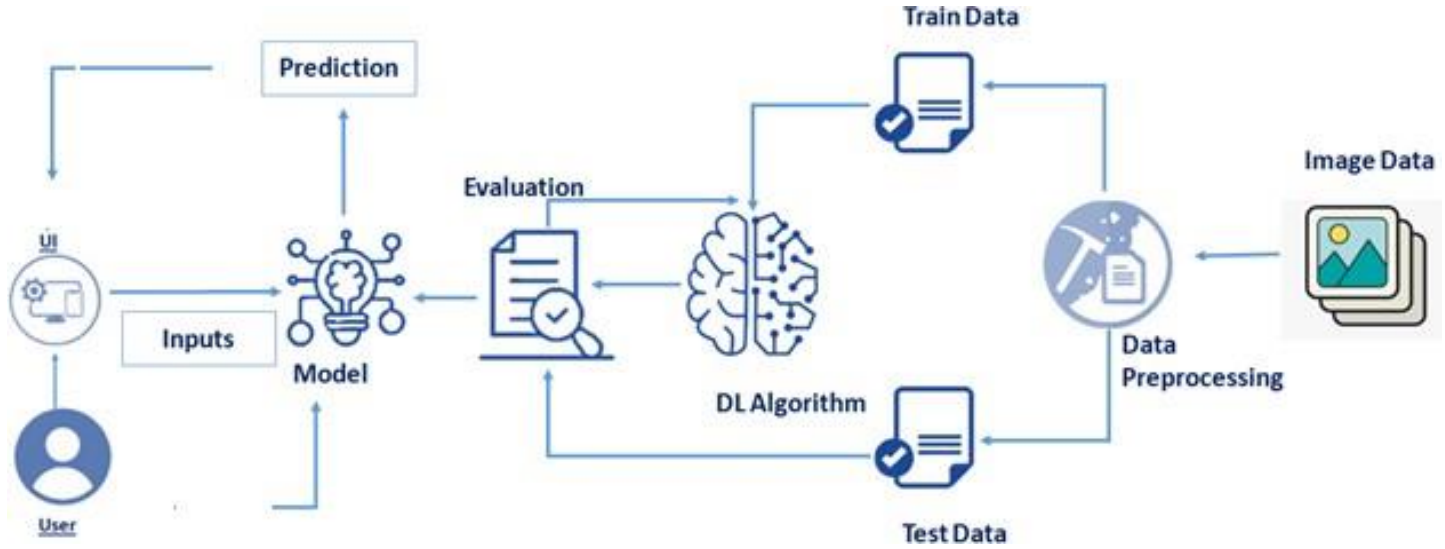

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user may interact with Mobile App	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	A macronutrient analysis using Fitness tools	Python
3.	Database	String, Numeric and date/time datatypes Configurations etc.	MySQL, NoSQL, etc.
4.	Cloud Database	A set of predefined values for the health monitors.	IBM DB2, IBM Cloudant etc.
5.	File Storage	Minimum 300 GB for a single node	IBM Block Storage or Other Storage Service or Local Filesystem
6.	External API-1	One can authenticate Aadhar cards of any other individual without any issue	Aadhar API, etc.
7.	Machine Learning Model	To detect and classify multiple objects within an image with high accuracy	Object Recognition Model, etc.
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration:127.0.0.1 Cloud Server Configuration : 128.0.01	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask framework in python	Artificial Intelligence
2.	Security Implementations	Data integrity, evidence of security-rich DNA	IAM Controls, OWASP etc.
3.	Scalable Architecture	It supports higher workloads without any fundamental changes to it	Artificial Intelligence
4.	Availability	The app evaluates all the functionalities of a model	Artificial Intelligence
5.	Performance	The application effectively use cache and CDNs	Artificial Intelligence