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

Date	17 October 2022
Team ID	PNT2022TMID38600
Project Name	AI Powered Nutrition Analyzer For Fitness Enthusiasts
Maximum Marks	4 Marks

Technical Architecture:

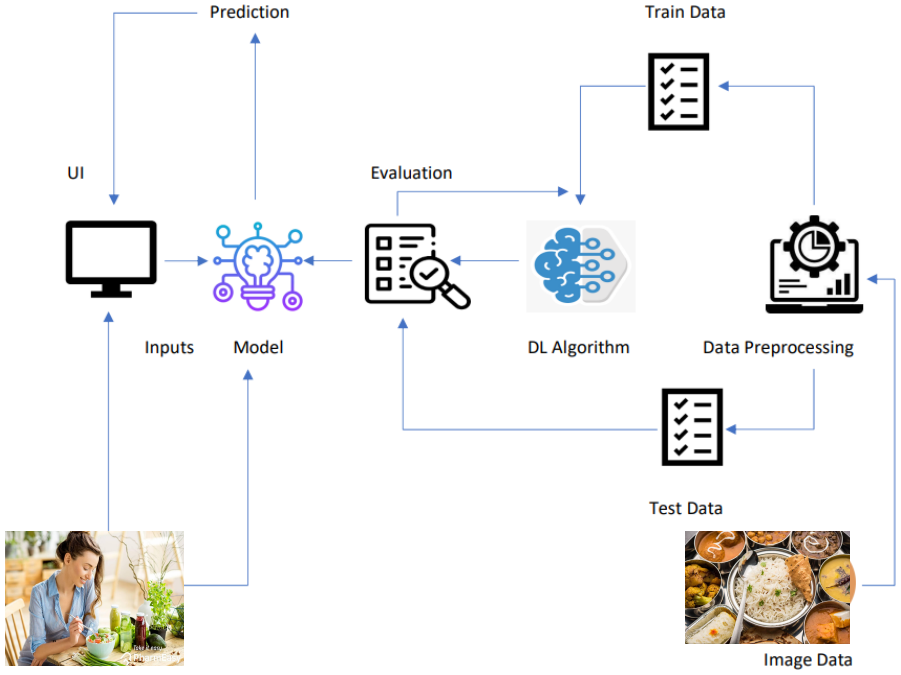

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How the user interacts with the application .To depict the human-computer interaction and communication	HTML, CSS, JavaScript,React Js
2.	Application Logic-1	A page to upload images as input	Python
3.	Application Logic-2	To use the Deep Learning model and predicting the result	Python
2.	Deep Learning Model	Deep learning model used to classifying the images using neural networks	CNN
3.	Database	Structured data-images	MySQL
4.	Cloud Database	Database that typically runs on a cloud computing platform and access to the database is provided as-a service	IBM Cloud Databases for MySQL
5.	File Storage	File storage requirements	Local Filesystem
6.	API	Used to Collecting heart beat rate data	Google fit API

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask micro web framework	Written in Python. It is classified as a micro frame work because it does not require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where preexisting third-party libraries provide common functions
2.	Security Implementations	With all aspects of the job, including detecting malicious attacks, analyzing the network, endpoint protection and vulnerability assessment, Sign in encryption	IBM Cloud App ID Services
3.	Availability	Available for all data Size	IBM Cloud
4.	Performance	Can extend the storage according to our needs	IBM Cloud