

Project Design Phase-II

Technology Architecture

Date	01.11.2022
Team ID	PNT2022TMID51044
Project Name	AI-Powered Nutrition Analyzer For Fit Enthusiasts
Maximum Marks	4 Marks

Technical Architecture:

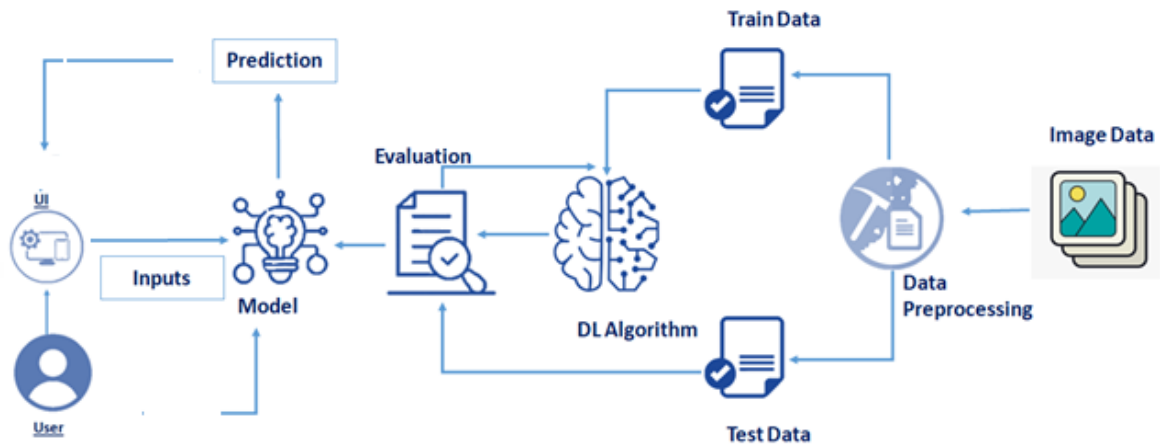


Table 1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Predicts the user interaction with application	HTML, CSS, Javascript
2.	Application Logic-1	A fitness tool is used for analysing the nutrient	Python
3.	Application Logic-2	IBM Watson Health is a digital tool that helps the healthcare services through AI	IBM Watson STT service
4.	Database	Datatype, Configurations, Data, etc.,	MSSQL
5.	Cloud Database	Cloud Database Service	IBM DB2, IBM Cloudant

6.	Notification	Nutrition notification will be Sent from the server	Grid
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Services
8.	External API	External API is used in the Application	IBM Weather API, Aadhar API
9.	Machine Learning Model	Detect and identify the image and objects	Python Colab
10.	Infrastructure (Server / Cloud)	Application Deployment, Local Server Configuration, Cloud Server Configuration	Local, Cloud Foundry, Kubernetes, etc.,

Table 2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask framework	Artificial Intelligence
2.	Security Implementations	Request authentication, Security controls ,etc.,	Encryption, firewalls
3.	Scalable Architecture	Supports high workloads	Artificial Intelligence
4.	Availability	Use of load, distributed Servers	Artificial Intelligence
5.	Performance	The application predicts the image up to 6000 per second	Artificial Intelligence

Team Leader

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