Project Design Phase-II
Technology Architecture

Team ID	PNT2022TMID50689
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts
Batch ID	B4-4M6E

Technical Stack:
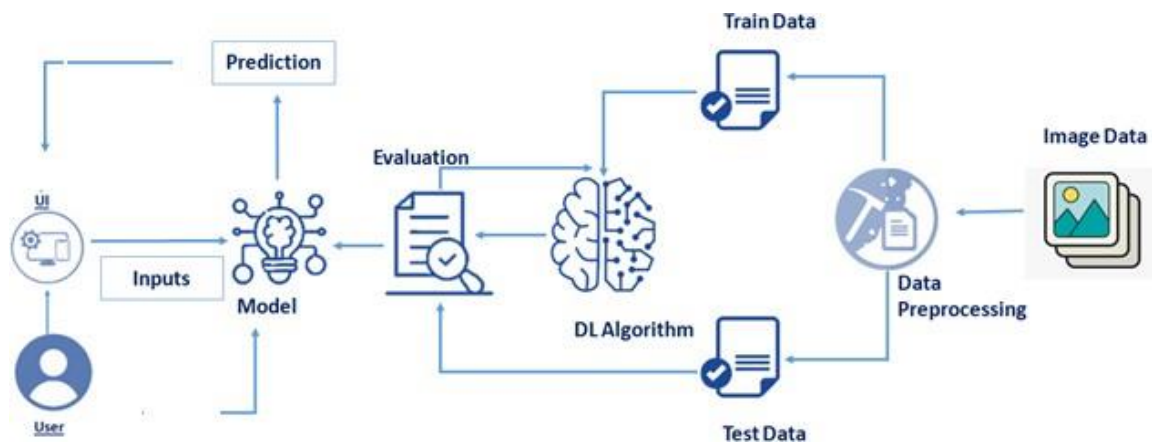
S.No	Component	Description	Technology
1.	User interface	How client connects with application for example: Web UI, Portable Application, Chatbot and so on.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Rationale for a cycle in the application.	Java / Python
3.	Application Logic-2	Rationale for a cycle in the application.	IBM Watson STT service
4.	Application Logic-3	Rationale for a cycle in the application.	IBM Watson Assistant
5.	Database	Data type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Data set help on Cloud.	IBM DB2,IBM Cloudant etc.
7.	File Storage	Document capacity prerequisites.	IBM Block Stockpiling or other Stockpiling administration or Neighborhood File system.

8.	External AP-1	Motivation behind Outside Programming interface utilized in the application.	IBM Weather API, etc.
9.	External API-2	Motivation behind Outside Programming interface utilized in the application.	Aadhar API, etc.
10.	Machine Learning Model	Reason for Machine Learning Model.	Object Acknowledgment Model, and so on.
11.	Infrastructure(Server/Cloud)	Application Sending on Neighbourhood Framework/Cloud Nearby Server Setup: Cloud Server Design :	Neighborhood, Cloud Foundry, Kubernetes, and so on.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Systems	List the open-source systems utilized.	Innovation of open source system.
2.	Security Executions	List all the security/access controls carried out, utilization of firewalls and so forth.	For example SHA-256, Encryptions , IAM controls, OWASP etc.
3.	Versatile Engineering	Legitimize the versatility of use (3 - level, Miniature administrations)	Technology used
4.	Availability	Legitimize the accessibility of utilization (e.g. use of load balancers, distributed servers etc.)	Technology used
5.	Performance	Plan thought for the exhibition of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used

References:

https://c4model.com/

https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/

https://www.ibm.com/cloud/architecture

https://aws.amazon.com/architecture

https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d