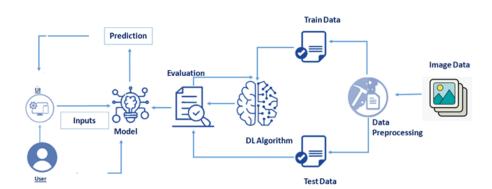
# PROJECT DESIGN PHASE-II TECHNOLOGY ARCHITECTURE

Date	04 November 2022	
Team ID	PNT2022TMID38129	
Project Name	Project - Al-Powered Nutrition Analyzer for	
	Fitness Enthusiasts	
Maximum Marks	4 Marks	

#### **Technical Architecture:**

### **Example: Order processing during pandemics for offline mode**



**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.	Application Logic-2	IBM Watson Health is a digital tool that effectively helps healthcare services through Al	IBM Watson STT service
4.	Application Logic-3	A virtual assistant that can answer real-world problems about complex health plan benefits quickly and easily	IBM Watson Assistant
5.	Database	String, Numeric and date/time datatypes Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	A set of predefined values for the health monitors.	IBM DB2, IBM Cloudant etc.
7.	File Storage	Minimum 300 GB for a single node	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Allows to access critical forecasts, alerts and observations	IBM Weather API, etc.
9.	External API-2	One can authenticate Aadhar cards of any other individual without any issue	Aadhar API, etc.
10.	Machine Learning Model	To detect and classify multiple objects within an image with high accuracy	Object Recognition Model, etc.
11.	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.

S.No	Characteristics	Description	Technology
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

#### 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