TECHNICAL ARCHITECTURE

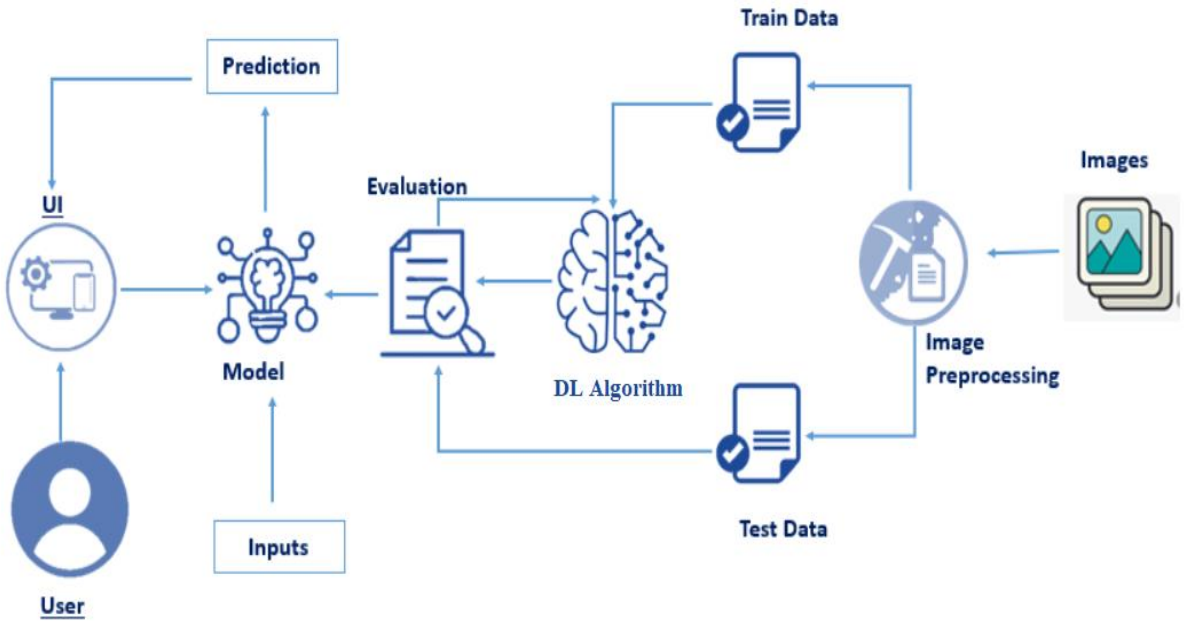

Table-1:Components and Technologies

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application? Ex: Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript/ Angular JS/ React JS, etc.
2.	Application Logic-1	Logic for a process in the application.	Python
3.	Application Logic-2	Logic for a process in the application.	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application.	IBM Watson Assistant
5.	Database	Data type, Configurations, etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database service on cloud.	IBM DB2, IBM Cloudant, etc.
7.	File Storage	File storage requirements.	IBM Block or other storage service or local filesystem.
8.	External API-1	Purpose of external API used in the application.	IBM Weather API, etc.
9.	External API-2	Purpose of external API used in the application.	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning model.	Object recognition model, etc.
11.	Infrastructure(Server/Cloud)	Application deployment on local system.	Local, Cloud foundry, etc.

Table-2:Application characteristics

S.No	Characteristics	Description	Technology
1.	Open-source frameworks	List the open-source frameworks used.	Anaconda Navigator, Keras, Flask, Tensor flow
2.	Security implementations	List all the security/access controls implemented, use of firewalls, etc.	Sha-256, Encryptions, IAM controls, OWASP, etc.
3.	Scalable architecture	Justify the scalability of architecture(3 Tier, Micro-services)	Response time, Throughput, CPU and Network usages, etc.
4.	Availability	Justify the availability of application (Ex. Use of load balancers, distributed servers, etc.)	All kind of users
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's, etc.)	Predicting diseases, Visual similarity, Rules, Image processing, Machine learning techniques, etc.