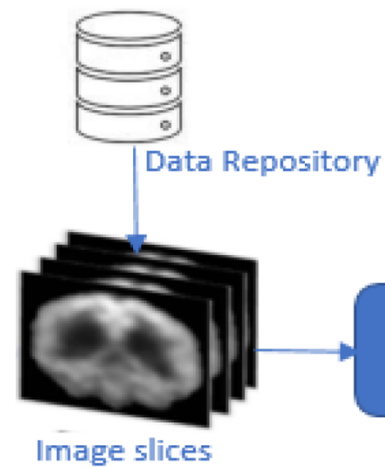


Project Design Phase-II
Technology Stack (Architecture & Stack)

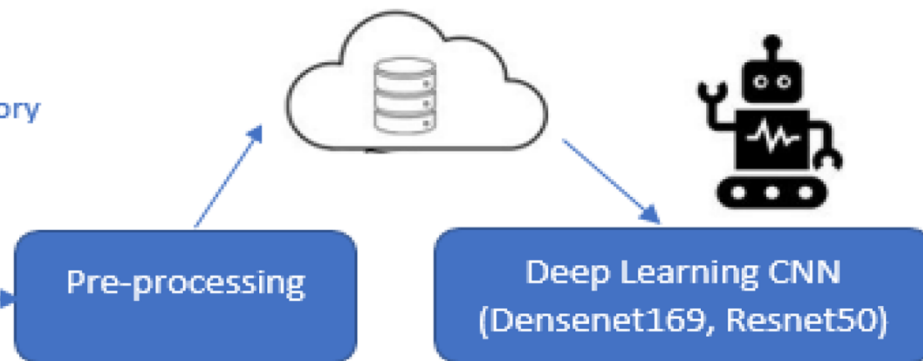
Date	13-12-2023
Team ID	PNT2022TMID592077
Project Name	Project - alzheimer disease prediction
Maximum Marks	4 Marks

Technical Architecture:

1- Model Building



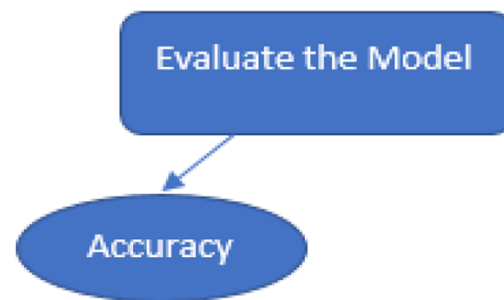
2- Model Training (Cloud or Standalone)



3- Export Trained Model



5- Model Evaluation



4- Model Testing

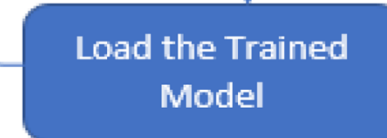
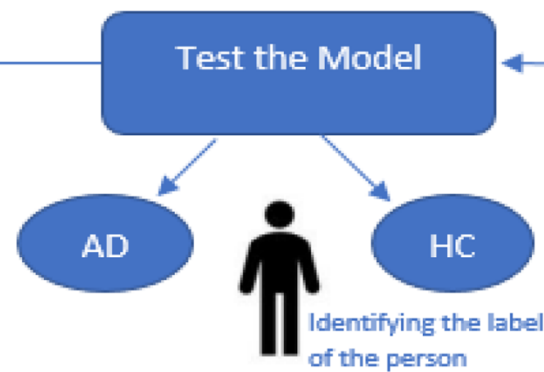


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	Python Cnn datasets
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	MRI Data sets
4.	Application Logic-3	Logic for a process in the application	Python Libraries
5.	Database	Data Type, Configurations etc.	CNN model
6.	Cloud Database	Database Service on Cloud	Datasets mri
7.	File Storage	File storage requirements	Cloud Storages
8.	External API-1	Purpose of External API used in the application	MRI
9.	External API-2	Purpose of External API used in the application	Python prediction
10.	Machine Learning Model	Purpose of Machine Learning Model	CNN model
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Inbuild servers

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
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1.	Open-Source Frameworks	List the open-source frameworks used	Deep learning Python
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Cnn Python
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Python CNN

S.No	Characteristics	Description	Technology
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Python CNN
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Python CNN