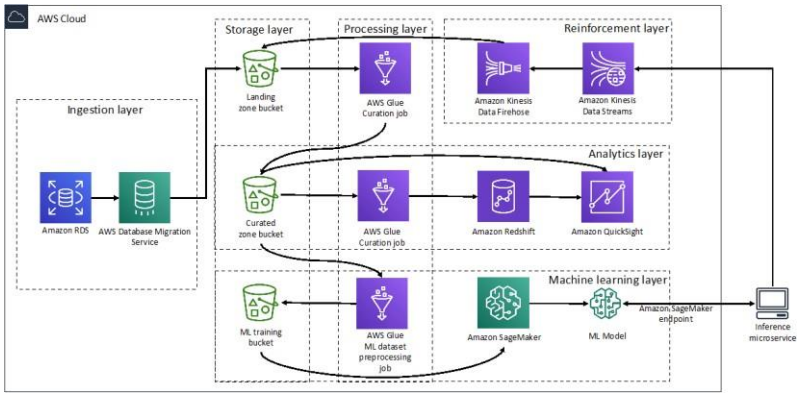
Project Design Phase-
IITechnologyStack (Architecture&Stack)

Date	18October2022
TeamID	PNT2022TMID38721
ProjectName	Visualizing And Predicting Heart Diseases withAnInteractive Dashboard
MaximumMarks	4 Marks

Technical Architecture:

TheDeliverableshallincludethearchitecturaldiagramasbelowandtheinformationas perthetable1&table2

Example:Heartdiseasesprediction



Guidelines:

1. Include allthe processes(Asanapplicationlogic/TechnologyBlock)
2. Provideinfrastructuraldemarcation(Local/Cloud)
3. Indicateexternalinterfaces(thirdpartyAPI'setc.)
4. Indicate DataStoragecomponents/ services
5. Indicate interfacetomachinelearningmodels(ifapplicable)

Table-1: Components&Technologies:

S.No	Component	Description	Technology
1.	UserInterface	WebUI, MobileApp, Chatbotetc.	HTML, CSS, JavaScript / Angular Js /ReactJsetc.
2.	ApplicationLogic-1	WebUI	Java/Python
3.	ApplicationLogic-2	MobileApp	IBMWatsonSTTservice
4.	ApplicationLogic-3	Chatbot	IBMWatsonAssistant
5.	Database	DataType, Configurationsetc.	MySQL,NoSQL,etc.
6.	CloudDatabase	DatabaseServiceonCloud	IBMDB2,IBMCloudantetc.
7.	FileStorage	Internalstroage	IBM Block Storage or Other StorageServiceorLocalFilesystem
8.	ExternalAPI-1	Collectthedata	IBMWeatherAPI, etc.
9.	ExternalAPI-2	Preprocessing	AadharAPI,etc.
10.	MachineLearningModel	TraningandTesting	ObjectRecognitionModel, etc.
11.	Infrastructure(Server/Cloud)	ApplicationDeploymentonLocalCloud	CloudFoundryetc.

Table-2:ApplicationCharacteristics:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Landing zonebucket	TechnologyofOpensourceframework
2.	SecurityImplementations	Amazonkinesisdatastream	e.g. SHA-256, Encryptions, IAMControls,OWASP etc.
3.	ScalableArchitecture	AWSmldataset	Technologyused
4.	Availability	loadbalancers,distributedserversetc	Technologyused
5.	Performance	Designconsiderationfortheperformanceofthe	Technologyused

S.No	Characteristics	Description	Technology
		application(numberofrequestspersec,useofCache, useofCDN's)etc.	

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