## $\label{lem:projectDesignPhase-II} ProjectDesignPhase-II\\ TechnologyStack(Architecture \& Stack)$

Date	12October2022
TeamID	PNT2022TMID37589
ProjectName	Early Detection of Chronic Kidney Disease using
	MachineLearning
MaximumMarks	4 Marks

## **Technical Architecture:**

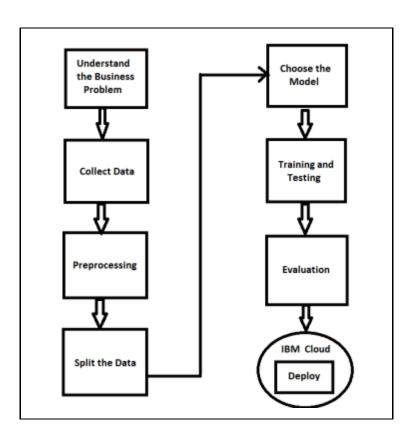


Table-1: Components & Technologies:

S.N	Component	Description	Technology
0			
1	UserInterface	Howuserinteractswithapplicatione.g. W ebUI	HTML,CSS,PythonFlask
2	ApplicationLogic-1	Getinputfrom theuser	HTML,CSS,PythonFlask
3	ApplicationLogic-2	Predictsbased ontheprovidedinput	Python
4	ApplicationLogic-3	DisplaysthepredictedResult	Python,HTML,CSS,Flask
5	FileStorage	Filestoragerequirements	IBMCLOUD
6	Machine Learning Model	RandomForest,Regressiontechn iq ues,DecisiontreeandSVM	PredictionandClassification
7	Infrastructure(Server/Cloud)	Cloud Deployment	IBMCLOUD

## Table-2: Application Characteristics:

S.N	Characteristics	Description	Technology
0			
1	Open-SourceFrameworks	Development and Deployment	IBMCloud,Python
2	SecurityImplementations	SecutiryprovidedbyIBM Cloud	WorkloadProtection,Identi ty andAccessProtection
3	ScalableArchitecture	Model canbe scalable	Python

4	Availability	Availableinthecloud	IBMCLOUD
5	Performance	HighaccuracyPerformance	MachineLearningPredictio na ndClassificationtechniques

## **References:**

https://www.ibm.com/in\_en/cloud security?utm\_content=SRCWW&p1=Search&p4=43700052658150583&p5=e&gclid=CjwKCAjwtKmaBhBMEiw AyINuwJox0TDWprc7hp189HpjBfjAmN0isGe3Etmvr9criDif P D-ZckNxoCBJgQAvD BwE&gclsrc=aw.ds

https://www.webmd.com/a-to-z-guides/understanding-kidney-disease-basic-

informationhttps://www.tutorialspoint.com/flask/index.htm

https://scikit-learn.org/stable/supervised\_learning.html#supervised-learning