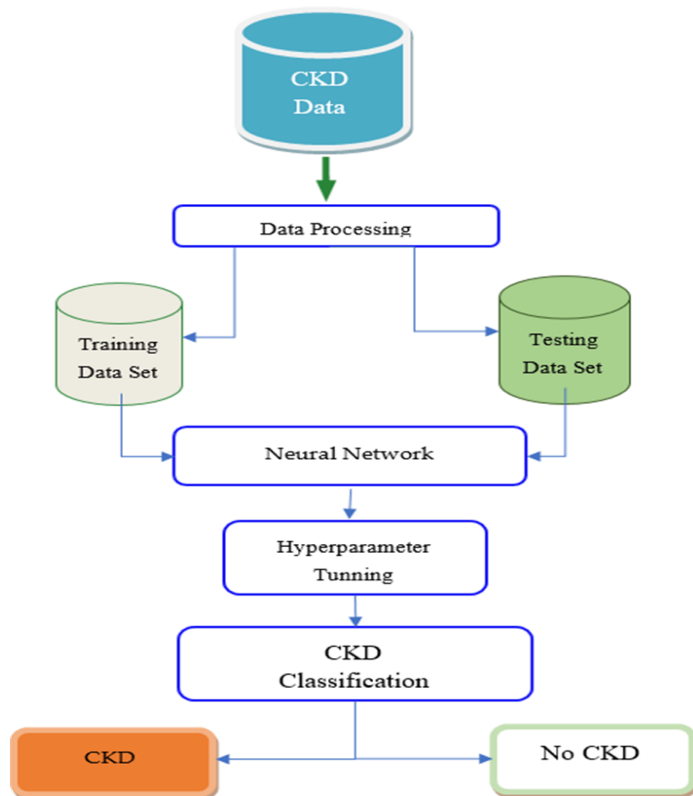


## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	20 October 2022
Team ID	PNT2022TMID49895
Project Name	Early Detection of chronic kidney disease
Maximum Marks	4 Marks

### Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2.



#### Guidelines:

- Include all the processes (CKD data).
- Provide CDK data for testing process.
- To recognize underlying relationships in a set of data.
- Hyperparameters, set within limits you specify.
- Finally we find wheather the patient have CKD or not.

**Table-1 : Components & Technologies:**

<b>S.No</b>	<b>Component</b>	<b>Description</b>	<b>Technology</b>
1.	Application Logic-1	User interacts with web application	Html / Python
2.	Application Logic-2	Developing application	Python
3.	Application Logic-3	Capabilities of application	IBM Watson Assistant
4.	Database	To create the database	MySQL, NoSQL, etc.
5.	Cloud Database	Database Service on Cloud	IBM cloud etc.
6.	File Storage	Storing the data	IBM Block Storage or Other Storage Service or Local Filesystem
7.	External API-1	To deliver accurate and data file	IBM Weather API, etc.
8.	External API-2	T/o verify the data	Aadhar API, etc.
9.	Machine Learning Model	To identify and locate object	Object Recognition Model, etc.
10.	Infrastructure (Server / Cloud)	To compile and run the apps locally	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Security Implementations	Implementation of therapeutic interventions and avoidance of inappropriate exposure to nephrotoxic agents	Advanced UTM technology
2.	Scalable Architecture	More number of pateint can used	AWS infrastructure structure
3.	Availability	Increasing the availability	AWS Cloud Development Kit
4.	Performance	High performance	Technology to drive healthy profits