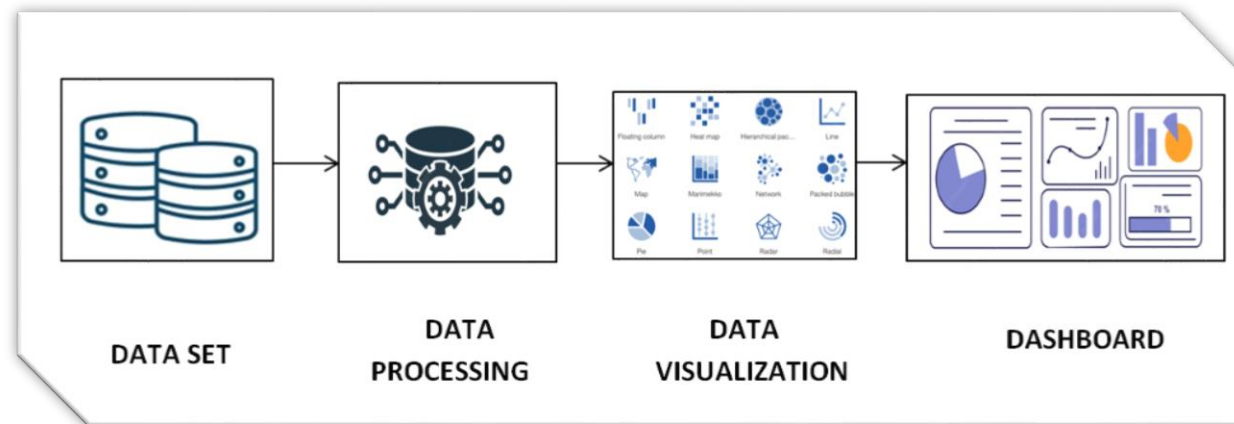


**Project Design Phase-  
IITechnologyStack(Architecture&Stack)**

Date	21October2022
TeamID	PNT2022TMID38670
ProjectName	RetailStoreStockInventoryAnalytics
MaximumMarks	4Marks

**TechnicalArchitecture:**



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

S.No	Component	Description	Technology
1.	UserInterface	TheuserinteractswithapplicationusingWebUI	HTML,CSS,JavaScript
2.	DataProcessing	The data from the dataset is pre-processed	IBMCognosAnalytics
3.	CloudDatabase	The cleandataset is stored on IBMCloud	IBMCloud
4.	Data visualization	The data is visualized into different forms	IBMCognosAnalytics,Python
5.	Prediction	These Algorithm techniques are used to predict the proper way to make the stock in store.	ML algorithms –Logistic Regression,LinearRegression,Random Forest,ABCTechniques.

**Table-2:ApplicationCharacteristics:**

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Open-source frameworks used	IBMCognosAnalytics,Python
2.	SecurityImplementations	Request authentication using Encryptions	Encryptions
3.	ScalableArchitecture	Scalability consists of 3-tiers	WebServer– HTML,CSS,JavascriptApplicationServer –PythonDatabaseServer–IBMCloud
4.	Availability	The application is available for cloud users	IBMCloudHosting
5.	Performance	The user can know how to maintain the inventory to increase profits.	MLalgorithms