Project Design Phase-II TechnologyStd(Architecture &Stack)

Technical Architecture:

Date	21October2022	
TeamID	PNT2022TMID50870	
ProjectName RetailStoreStockInventoryAnalytics		
MaximumMarks	4 Marks	

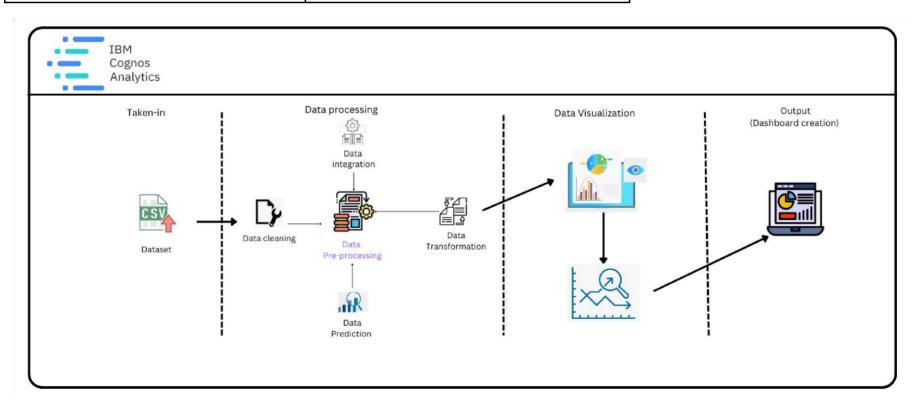


Table-1: Components& Technologies:

S.No	Component	Description	Technology	
1.	UserInterface	Theuserinteractswith application usingWebUl	HTML,CSS,JavaScript	
2.	DataProcessing	Thedatafromthedatasetispre- processed IBMCognos Analytics		
3.	CloudDatabase	Thecleandatasetis storedonIBMCloud	IBMCloud	
4.	Datavisualization	Thedatais visualizedinto differentforms	IBMCognosAnalytics,Python	
5.	Prediction	These Algorithm techniques are used to predictteproperwayto makethe stock in store.	MLalgorithms- LogisticRegression,LineRegression,RandomForest,ABCTechniques.	

Table-2:ApplicationCharacteristics:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Open-sourceframeworks used	IBMCognosAnalytics,Python
2.	SecurityImplementations	RequestauthenticationusingEncryptions	Encryptions
3.	ScalableArchitecture	Scalabilityconsistsof3-tiers	WebServer–HTML, CSS,Javascript Application Server – PythonDatabaseServer– IBMCloud
4.	Availability	Theapplicationisavailableforcloudusers	IBMCloudHosting
5.	Performance	The user can know how to maintain the inventorytincrease profits.	ML algorithms