

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

Date	16 October 2022
Team ID	PNT2022TMID17956
Project Name	Project - Global Sales Data Analytics
Maximum Marks	4 Marks

Technical Architecture:

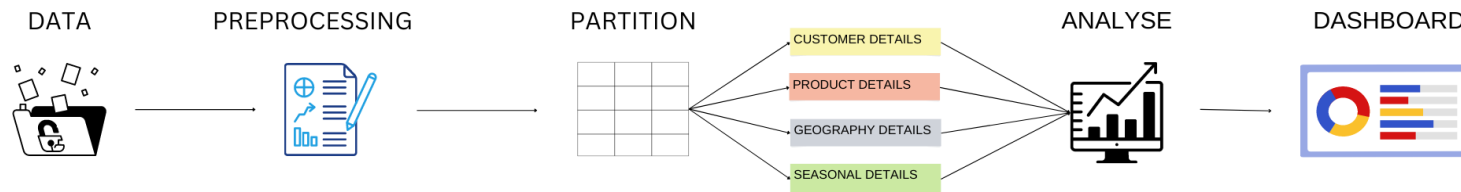


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user will interact through web ui.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Preprocessing	The missing values are handled. New features are extracted.	Python
3.	Partition	The processed data is partitioned by four categories. They are customer details, product details, geography details and seasonal details.	IBM Cognos Analytics with Watson
4.	Analyze	The application analyzes partitioned data.	IBM Cognos Analytics with Watson
5.	Dashboard	Visualize the data graphically.	IBM Cognos Analytics with Watson
6.	Cloud Database	Database service on cloud	IBM Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	IBM Cognos Analytics tools like dashboard, report are used. Python packages like numpy,pandas, matplotlib and seaborn are used.	IBM Cognos Analytics with Watson, IBM Cloud, Python
2.	Security Implementations	It provides authentication and security.	Python.
3.	Scalable Architecture	Small dataset to large dataset are used.	IBM Cognos Analytics with Watson, IBM Cloud, Python
4.	Availability	The dashboard creation will be done at any time. Users can view and analyze data all the time.	IBM Cognos Analytics with Watson
5.	Performance	This application provides high performance by producing analyzed data quickly.	IBM Cognos Analytics with Watson