Project Development Phase
Model Performance Test
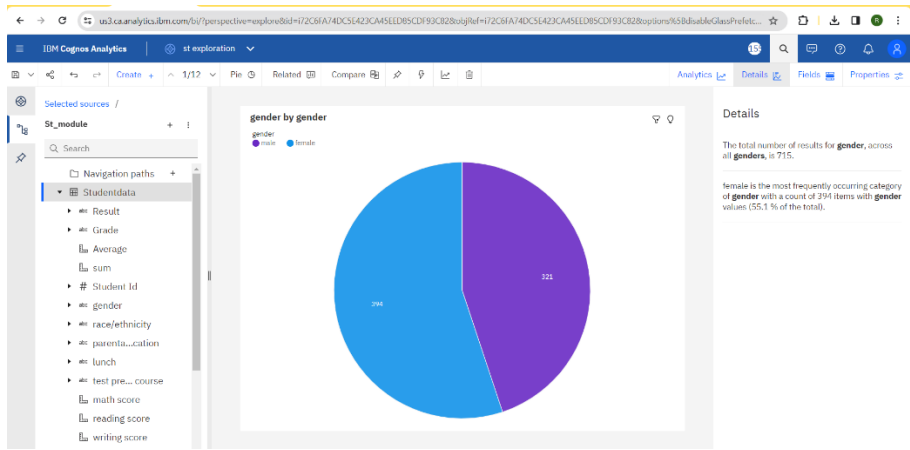
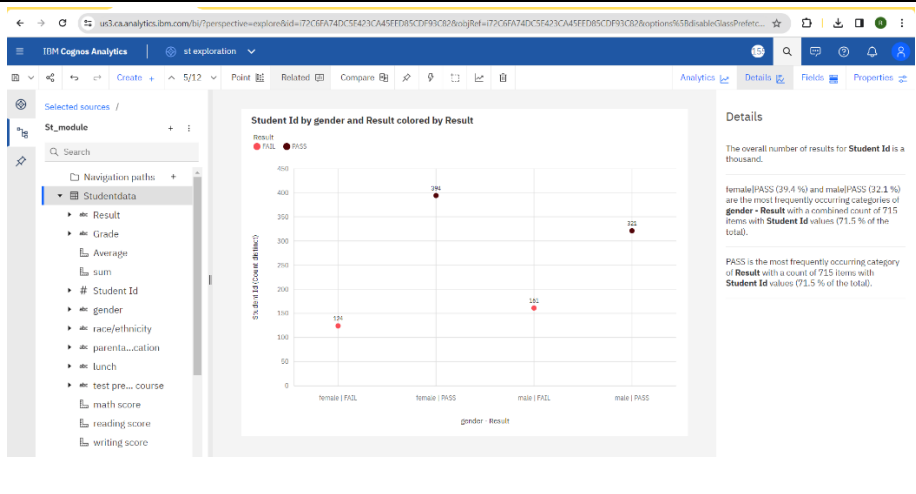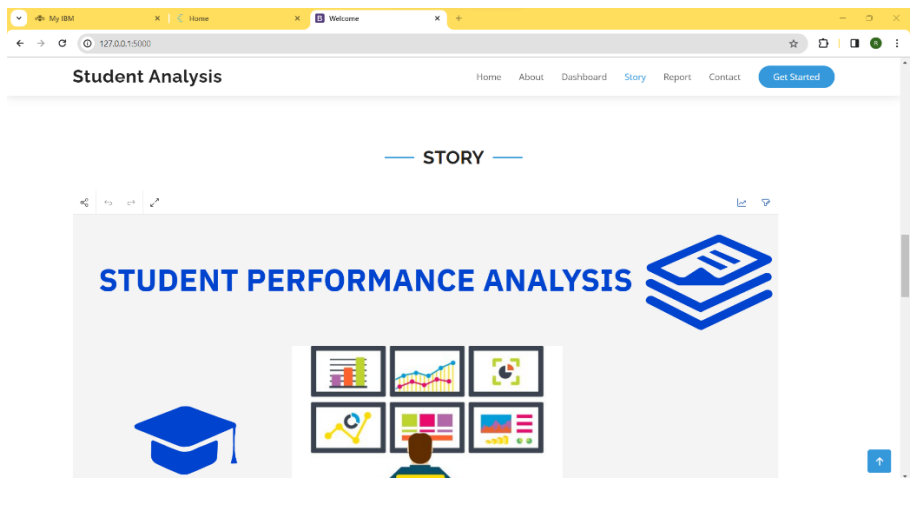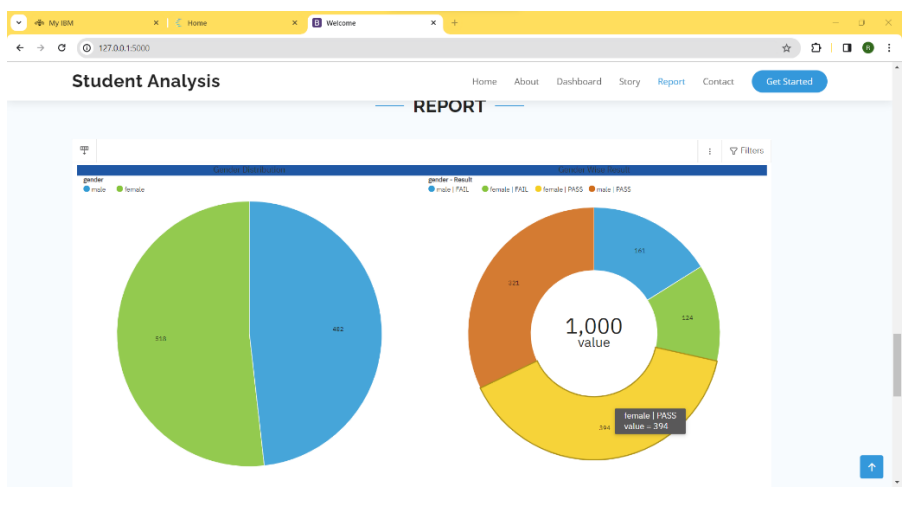|	
Date	04 November 2023
Team ID	NM2023TMID06843
Project Name	Project -Unleashing The Potential Of Our Youth: A Student Performance Analysis
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Screenshot / Values
1.	Dashboard design	No of Visualizations / Graphs - 12
2.	Data Responsiveness	Data responsiveness for this project focuses on the project's ability to use data efficiently and effectively to respond to academic challenges: 1. Real-time Monitoring: Continuously track student performance in real-time for immediate responses. 2. Early Warning Systems: Use data to identify at-risk students and trigger alerts when problems arise. 3. Predictive Analytics: Forecast potential challenges for proactive interventions. 4. Customized Support: Tailor interventions to individual student needs.

		5. Teacher and Administrator Access: Provide easy data access for educators to respond promptly. 6. Feedback Loop: Continuously improve by gathering input from stakeholders. 7. Data Security: Protect sensitive student information. 8. Scalability: Accommodate growth without sacrificing responsiveness. 9. Integration: Seamlessly integrate with educational resources. 10. Communication: Relay data-driven insights to stakeholders for informed decisions. Data responsiveness ensures timely interventions and data-driven decision-making in support of student success.

3.	Amount Data to Rendered (DB2 Metrics)	The amount of data to be rendered and managed in a project like "Unleashing The Potential Of Our Youth: A Student Performance Project Using Data Analytics" can vary significantly depending on several factors, including the project's scope, the number of students, the types of data collected, and the duration of data storage. To give you an idea of the data metrics involved, here are some common types of data and approximate metrics that might be managed in a project like this:
		
		1. Student Performance Data:
		  - Student profiles: Several kilobytes per student.
		  - Academic records: Several megabytes per student per academic year.
		  - Attendance records: Kilobytes to megabytes per student per academic year.
		
		2. Feedback and Surveys:
		  - Feedback forms and surveys: Kilobytes per form.
		  - Responses to surveys: Kilobytes to megabytes per student per survey.
		
		3. Predictive Models:
		  - Data used for predictive models: Gigabytes to terabytes depending on the dataset's size and complexity.
		  - Model parameters and results: Megabytes to gigabytes.
		
		4. User and Stakeholder Data:
		  - User profiles (teachers, administrators, students): Kilobytes per profile.

		- Stakeholder interaction and feedback data: Varies based on the frequency of interactions.
		
		5. Support Network and Peer Mentoring Data:
		   - Peer mentoring interactions and communication: Kilobytes to megabytes per interaction.
		
		6. Data Logs and Audit Trails:
		   - Log data for system events, access, and changes: Varies based on system activity.
		
		7. Data Backups and Archives:
		   - Historical data archives: Varies based on the retention policy.
		
		The actual volume of data can be substantial, and efficient data management and storage solutions, as well as regular data pruning and archiving, may be required to keep the project running smoothly.
		
		It's essential to perform a detailed data assessment and establish data retention policies to ensure that data management remains feasible and cost-effective. Additionally, scalability considerations are vital to accommodate growing data volumes over time as the project expands and serves more students and stakeholders.

4.	Utilization of Data Filters	

5.	Effective User Story	No of Scene Added - 9
6.	Descriptive Reports	No of Visulizations / Graphs - 4