

UNLEASHING THE POTENTIAL OF OUR YOUTH – A STUDENT PERFORMANCE ANALYSIS



IBM NAAN MUDHALVAN
PROJECT REPORT



Submitted By

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ABSTRACT

ABSTRACT

The performance analysis of students is an essential aspect of educational systems, aiming to evaluate and understand their academic achievements, identify areas of improvement, and implement effective strategies for enhanced learning outcomes.

This abstract provides a comprehensive overview of student performance analysis, highlighting its significance, key components, methodologies, and potential benefits. This begins by emphasizing the importance of student performance analysis in educational settings, emphasizing its role in measuring academic progress, identifying strengths and weaknesses, and fostering individualized instruction. It underscores the relevance of such analysis for both students and educators, promoting personalized learning experiences and targeted interventions.

Next, the abstract outlines the key components of student performance analysis. These typically include evaluating student assessment results, analysing grades, tracking attendance, monitoring participation, and conducting formative and summative assessments. Additionally, it emphasizes the significance of considering non-academic factors, such as student engagement, motivation, and socio-emotional well-being, as integral aspects of holistic performance analysis.

The abstract then highlights various methodologies employed in student performance analysis. These methodologies encompass both qualitative and quantitative approaches, incorporating data analysis techniques, statistical

modelling, and educational data mining. It further discusses the significance of leveraging technology and educational platforms to streamline data collection, automate analysis processes, and enable real-time feedback for informed decision-making. Moreover, the abstract explores the potential benefits of student performance analysis. It stresses the value of data-driven insights in identifying at-risk students, designing targeted interventions, and promoting academic success. It also emphasizes the significance of longitudinal analysis to track student progress over time and assess the effectiveness of educational interventions and curriculum modifications. In conclusion, student performance analysis plays a pivotal role in understanding and enhancing academic outcomes. By employing a comprehensive approach that considers various components, methodologies, and potential benefits, educational institutions can make informed decisions, provide tailored support, and empower students to reach their full potential.

INTRODUCTION

CHAPTER – 1

INTRODUCTION

1.1 PROJECT OVERVIEW

The Student Performance Analytics project aims to analyze student performance data to gain insights into the factors influencing academic success and provide recommendations for improving educational outcomes. The project will utilize various data sources, including student records, academic data, socioeconomic data, and school-related data. The collected data will undergo a thorough cleaning and preprocessing process to ensure its quality and integrity. Descriptive statistics will be employed to examine key academic indicators such as grades, test scores, and attendance rates. Through the analysis, patterns, trends, and correlations will be identified, shedding light on the factors that contribute to student performance. The project will conclude with actionable recommendations aimed at enhancing educational strategies, addressing potential challenges, and improving overall student outcomes.

1.2 PURPOSE

The purpose is to extract meaningful insights and patterns from educational data, enabling educators and administrators to make informed decisions and take targeted actions to improve student learning outcomes. By analyzing various data points such as grades, attendance, test scores, and demographic information, data analysis can help identify factors influencing student performance, detect trends, and develop effective interventions and strategies to support student success. It allows educators to monitor student progress, evaluate the effectiveness of teaching methods, identify at-risk students, and personalize instruction based on individual needs.

LITERATURE SURVEY

CHAPTER – 2

REFERENCES (SURVEY WORKS)

1. A Review of Student Performance Analysis Techniques by Smith, J., & Johnson, A. (2018):

This paper serves as a comprehensive review of various techniques used for analyzing student performance. It begins by discussing the importance of student performance analysis in educational settings and the potential benefits it offers for improving teaching and learning outcomes. The authors highlight the need to account for these factors while analyzing student performance to obtain accurate and meaningful insights. Additionally, the paper addresses the challenges and considerations associated with student performance analysis. It discusses issues related to data quality, data privacy, and ethical considerations when handling student data. The authors emphasize the importance of adhering to ethical guidelines and ensuring the privacy and confidentiality of student information during the analysis process.

2. Predicting Student Performance: A Literature Review by Brown, S., & Miller, R. (2017):

This literature review paper focuses on the prediction of student performance and provides insights into the various factors and approaches used in this area. It begins by highlighting the significance of predicting student performance in educational settings, as it can aid in identifying students who may be at risk of underperforming or dropping out. It covers the factors influencing student performance, different predictive modeling techniques, and the challenges and ethical considerations in this field. It serves as a valuable resource for

understanding the current state of research and can guide the design and implementation of predictive models for student performance analysis in educational settings.

3. Data Mining Techniques for Educational Data Analysis: A Survey by Romero, C., Ventura, S., Garcia, E. (2013):

This survey paper focuses on the application of data mining techniques for analyzing educational data. It begins by highlighting the importance of educational data analysis and the potential benefits it offers for improving educational practices and student outcomes. The paper provides an overview of different data mining techniques used in educational data analysis. It covers a range of techniques, including classification, clustering, association rule mining, and sequential pattern mining. In conclusion, this survey paper provides a comprehensive overview of data mining techniques applied to educational data analysis. It covers the methodologies, challenges, and applications of different techniques in educational settings. It serves as a valuable resource for understanding the potential of data mining for improving educational practices and student outcomes.

4. Using Machine Learning to Predict and Improve Student Performance by Wang, X., X., & Zhang, L. (2019):

This paper focuses on the utilization of machine learning techniques for predicting and improving student performance. It begins by emphasizing the importance of understanding student performance patterns and the potential benefits of using machine learning in educational settings. The authors provide an in-depth overview of different machine learning techniques

applied to student performance analysis. They cover a wide range of algorithms, including decision trees, random forests, support vector machines, and neural networks. In conclusion, this paper provides a comprehensive overview of using machine learning techniques to predict and improve student performance. It covers different algorithms, feature selection methods, and applications of machine learning in educational settings. The paper serves as a valuable resource for understanding the potential of machine learning in analyzing student performance and guiding instructional decision-making.

5. A Survey on Educational Data Mining: Predicting Student Performance by Choudhury, P., & Hussain, S. (2018):

This survey paper focuses on educational data mining and specifically explores the prediction of student performance. It begins by providing an overview of educational data mining and its significance in improving educational practices and student outcomes. The authors delve into the different techniques used in educational data mining for predicting student performance. They discuss the application of various data mining algorithms, including classification, clustering, association rule mining, and sequential pattern mining. In conclusion, this survey paper provides a comprehensive overview of educational data mining techniques for predicting student performance. It covers the methodologies, factors, challenges, and ethical considerations in this field. The paper serves as a valuable resource for understanding the current state of research in predicting student performance and can guide the design and implementation of predictive models in educational settings.

6. A Survey of Predictive Analytic Techniques for Student Success in Online Courses by Zheng, J., & Ma, J. (2017):

This survey paper focuses specifically on predictive analytics techniques used for predicting student success in online courses. It begins by highlighting the growing popularity and importance of online learning platforms and the need to improve student success and retention rates in these environments. The authors provide an overview of different predictive analytic techniques applied in the context of online courses. In conclusion, this survey paper provides a comprehensive overview of predictive analytic techniques for student success in online courses. It covers different algorithms, feature selection methods, and applications of predictive analytics in online learning environments. The paper serves as a valuable resource for understanding the potential of predictive analytics in improving student success and retention rates in online courses.

IDEATION & PROPOSED SOLUTION

CHAPTER-3

IDEATION & PROPOSED SOLUTION

3.1 PROBLEM STATEMENT DEFINITION

Predicting student performance becomes more challenging due to the large volume of data in educational databases. The lack of existing system to analyse and monitor the student progress and performance is not being addressed. There are two main reasons of why this is happening. First, the study on existing prediction methods is still insufficient to identify the most suitable methods for predicting the performance of students. Second is due to the lack of investigations on the factors affecting student achievements in particular courses. Therefore, a systematic literature review on predicting student performance by using data analytics is proposed to improve student achievements.

The faculty cannot find out student abilities and their interest easily so that they can enhance them in it. Thus, it may affect with poor university results, placement and career of individual. The impact is that it helps us from fulfilling mission and vision of the institute. This Student performance analysis project can be used to inform decisions about how to support students and to tailor instructions and interventions to meet the needs of individual students or groups of students



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Faculty	Provide insight about the performance of the students and identify problems which troubles them.	Predicting student performance becomes more challenging.	Large volume of data in educational databases.	Anxiety and confusion
PS-2	Educator	Identify the struggle of students as soon as possible.	The face time and resource constraints that hinder their ability to conduct in-depth and continuous analysis of student performance	Because of huge data.	Time delay

3.2 EMPATHY MAP CANVAS

THINK AND FEEL

SEE



Analyse the performance of the students individually and enhance them.

By analysing their interests based on their activities, students can be trained based on the domain.

Where do the students lack and what measures should be taken?

How individual a student is capable of and to offer them placements on their interests?

What should be developed in order to improve the performance of the student.

Students performance will be monitored.

Students ,their parents ,faculties and management all should be enabled to view the performance.

Not only in the academic domain but also in co-curricular and extra-curricular performance should be monitored.

Analyse the performance and provide what is needed for the students.

To provide trainings for placements based on their interests.

To enhance the students with different methods those who are lagging in their scores.

HEAR

SAY AND DO

Fig 3.2 Empathy Map

3.3 IDEATION AND BRAINSTORMING

PROBLEM

The performance of students in educational institutions is a critical factor that influences their academic success and future career prospects. However, traditional methods of analyzing student performance, such as manual grading and standardized tests, can be time-consuming and may not provide a comprehensive understanding of student learning. The problem statement, therefore, is to develop a data analytics solution that can effectively analyze student performance data and provide insights that can be used to improve the teaching and learning process.

Fig 3.3.1.a Brainstorming and Idea Prioritization

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

⌚ 10 minutes

ARUN R G

Teachers should be updated to come up with new ideas	Students performance will be monitored	Learning should be based on their interest
--	--	--

CHERAN J

Teaching can be done through practical modes	To provide training for placement, based in their interest	Hands on activities to improve their knowledge
--	--	--

DEEPESH KUMAR S

Encouragement is to be given as a key	Prepare students for open-talks	Students can share their ideas with each others
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DHARANI PRIYA M

Provide students a personalized learning plan	Students can feel free to ask doubts to the allocated mentors	Learning concepts through visual animation
---	---	--

JERIN ANGEL A P

Compare the effectiveness of different teaching methods and curricula to develop educational strategies.	Collect and analyze data over multiple years to identify long-term trends and improvements.	Ensure data privacy and ethics are maintained throughout the process by protecting student information and using it on a potential basis in analysis.
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Fig 3.3.2.b Brainstorming and Idea Prioritization

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

⌚ 15 minutes

TIP
You can use the Voting session tool above to focus on the strongest ideas.

Students should be provided with quality education and achieve their goals.

Create new ways and platforms to expose the talents in students

Analyze each student performance to enhance their skills

Based on the analysis staffs and faculties can change their way of delivering their contents.

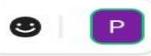


Fig 3.3.2.c Brainstorming and Idea Prioritization

3

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

⌚ 20 minutes

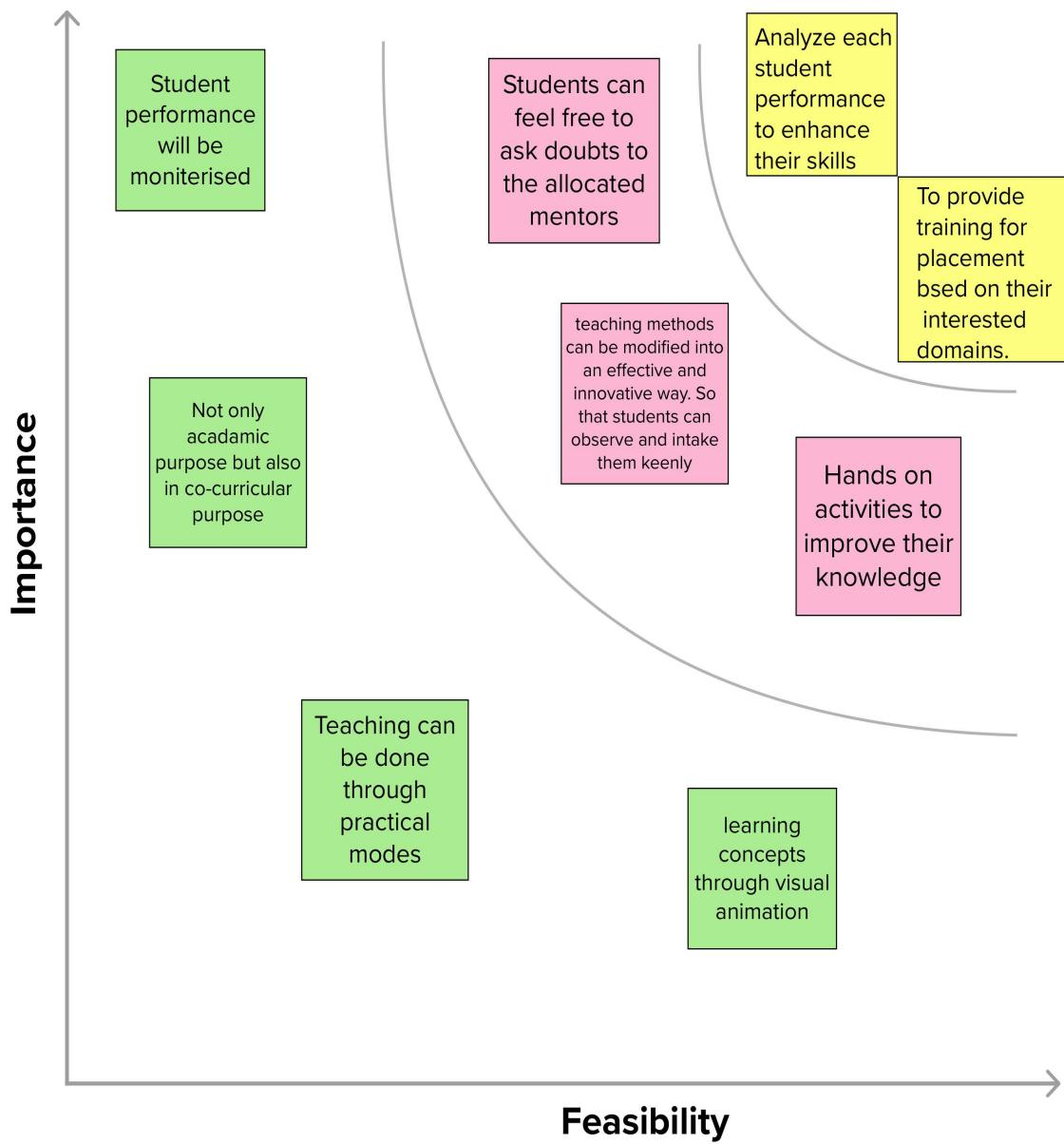


Fig 3.3.2.d Brainstorming and Idea Prioritization

3.4 PROPOSED SOLUTION

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>Predicting student performance becomes more challenging due to the large volume of data in educational databases. The lack of existing system to analyse and monitor the student progress and performance is not being addressed. There are two main reasons of why this is happening. First, the study on existing prediction methods is still insufficient to identify the most suitable methods for predicting the performance of students. Second is due to the lack of investigations on the factors affecting student achievements in particular courses. As there are more data, it may take more time to analyse and identify the struggle of the students.</p>
2.	Idea / Solution description	<p>Student performance analysis is the process of evaluating and assessing the academic progress of students in a particular educational institution or program. This analysis helps educators and administrators to identify areas</p>

	<p>where students are excelling or struggling and to make informed decisions about curriculum development, instruction, and student support services.</p> <p>Student performance analysis can also be used to evaluate the effectiveness of teaching methods and instructional materials, and to identify areas where improvements can be made. Additionally, it can inform decisions about resource allocation, such as the allocation of funding for academic programs or professional development for educators. Overall, a student performance analysis system can help schools improve student outcomes, increase graduation rates, and close the achievement gap.</p>
3.	<p>Novelty / Uniqueness</p> <p>The ability of a student performance analysis system lies in the process and analyse vast amounts of student performance data from multiple sources in a centralized platform. Overall, a student performance analysis system represents a novel and</p>

		unique solution to the challenge of analysing and utilizing student performance data to improve outcomes for students.
4.	Social Impact / Customer Satisfaction	A student performance analysis system can help to improve satisfaction among teachers, administrators, and parents by providing a more comprehensive and accurate view of student performance. Teachers and administrators can use the system to identify areas where students are struggling and develop targeted interventions to address these challenges. Parents can also use the system to monitor their child's progress and stay informed about their academic performance. Overall, a student performance analysis system has the potential to improve both educational outcomes and consumer satisfaction by providing teachers, administrators, and parents with better data and insights into student performance.

5.	Business Model (Revenue Model)	<p>A business model for a student performance analysis system could be based on a subscription-based model, where schools and educational institutions pay a monthly or annual fee to access the platform and its features. The subscription fee could be based on the number of students enrolled in the school or the number of teachers and administrators who require access to the system.</p>
6.	Scalability of the Solution	<p>The scalability of a student performance analysis system is high, as it can be easily scaled to accommodate a growing number of users and data sources, and can also improve its capabilities over time as it processes more data and becomes more widely adopted.</p>

REQUIREMENT ANALYSIS

CHAPTER – 4

REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENT

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Input	<p>Implement an Extract, Transform, Load (ETL) process to gather data from various sources, such as databases, applications, and external systems. Use appropriate tools and techniques to integrate the data into a centralized data repository</p>
FR-2	Model and Pre-processing	<p>Clearly understand the problem you want to solve or the question you want to answer through data analytics. This step helps guide the selection of an appropriate model and preprocessing techniques.</p> <p>These preprocessing techniques can be implemented using various programming languages (Python, R, etc.) and libraries (NumPy, Pandas, scikit-learn, etc.) that provide functions and methods specifically designed for data preprocessing tasks.</p>
FR-3	Detection	<p>Detection refers to the process of identifying patterns, anomalies, or specific events of interest within a dataset. There are various techniques and solutions available for</p>

		detection in data analytics, depending on the specific goals and requirements of the analysis.
FR-4	Evaluation	Apply your data analytics solution to the testing dataset and evaluate its performance using the predefined evaluation metrics. Measure how well your solution achieves the desired outcomes and compare it against the baseline model.
FR-5	Report Generation	Decide on the structure and visual representation of the report. Consider the appropriate charts, tables, graphs, or other visualizations that effectively communicate the insights derived from the data. Ensure the report is easy to understand and visually appealing.

4.2 NON-FUNCTIONAL REQUIREMENT

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It helps to ensure that software is usable, efficient, and effective for users
NFR-2	Security	The software should be secure, with measures in place to protect user data and prevent unauthorized access.

NFR-3	Reliability	The software should be reliable and dependable. It should be able to analyze data accurately and consistently, and it should not crash or fail frequently.
NFR-4	Performance	The software should be able to analyze large volumes of data quickly and efficiently. It should be able to handle complex queries and computations without slowing down.
NFR-5	Availability	The software should be available to users whenever they need it. It should not experience frequent downtime or crashes that interrupt user tasks.
NFR-6	Scalability	The software should be able to handle increased loads as user numbers grow. It should be designed to handle a large number of users without performance degradation.

PROJECT DESIGN

CHAPTER – 5

PROJECT DESIGN

5.1 DATA FLOW DIAGRAMS

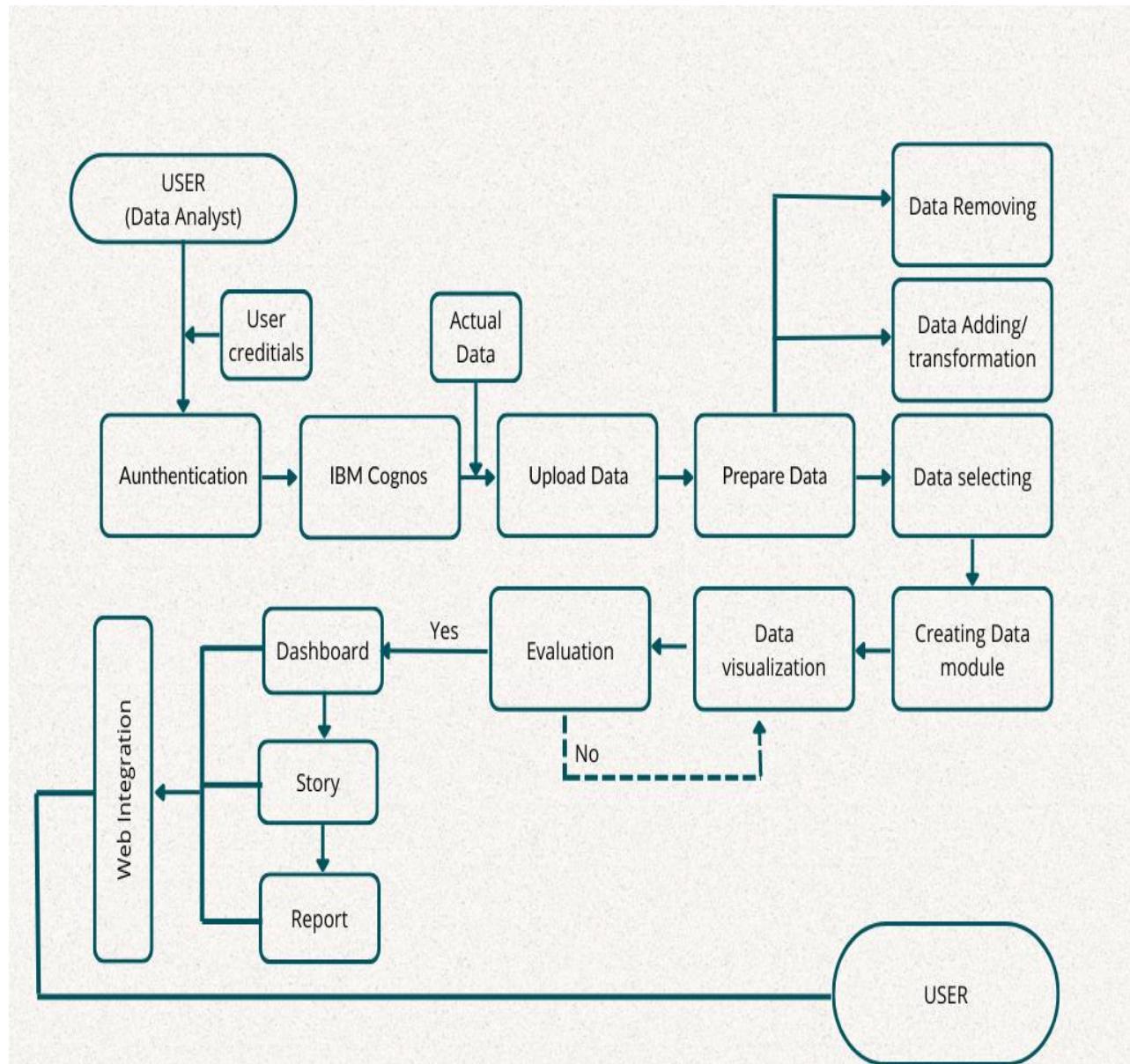


Fig 5.1 Data Flow Diagrams

5.2 SOLUTION AND TECHNICAL ARCHITECTURE

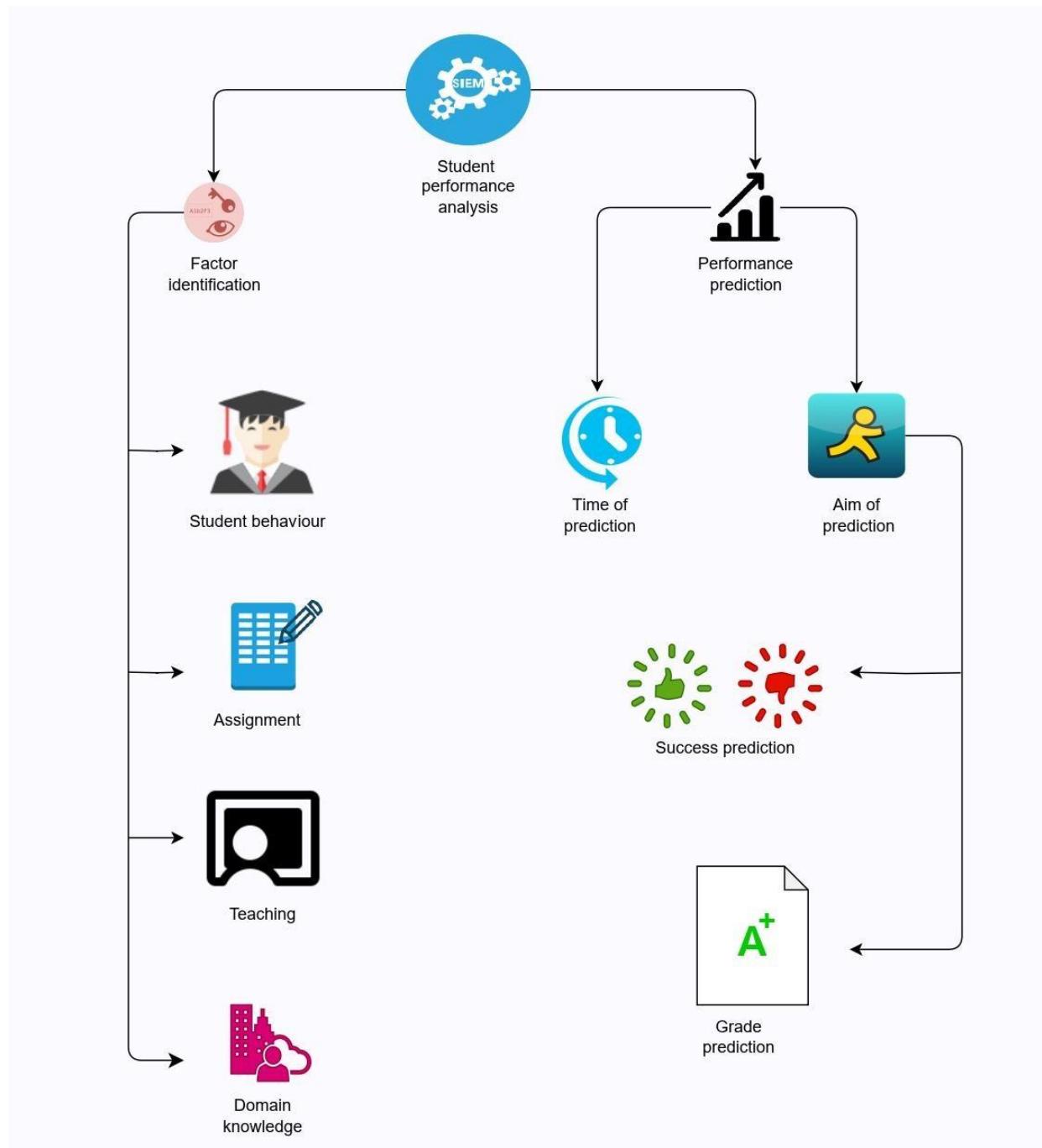


Fig 5.2 Solution and Technical Architecture

5.2 USER STORIES

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Member
Data Analyst	Register/Login	USN-1	To create a dashboard for my processing, I register/login.	High	Arun R G
	IBM Cognos Cloud	USN-2	Here in the IBM cloud, I store the input actual data for creating dashboard.	High	Cheran J
		USN-3	we connect the database to Cognos, Once the data is stored at IBM Cloud	Medium	Deepesh Kumar S
	IBM Cognos	USN-4	I upload the data from cloud to Cognos to create a data visualization.	High	Jerinangel AP
		USN-5	Once the data is uploaded, I remove the unwanted files or the duplicate files.	Medium	Dharni Priya M
		USN-6	After this, I create a Data Module followed by Data Visualization.	Medium	Deepesh Kumar S
	Dashboard	USN-7	Data visualization is evaluated basis on priority/criteria and Dashboard is created.	High	Arun R G
	Story	USN-8	I gather the insights from the dashboard and present it in a narrative manner.	High	Cheran J
	Report	USN-9	I refer to dashboard to conclude and present a summary of data.	High	Dharani Priya M
User	Web Integration	USN-10	I can access the dashboard, story and Report in Web where the entire analysis of the project is integrated.	High	Jerinangel AP

CODING AND SOLUTIONING

CHAPTER – 6

CODING AND SOLUTIONING

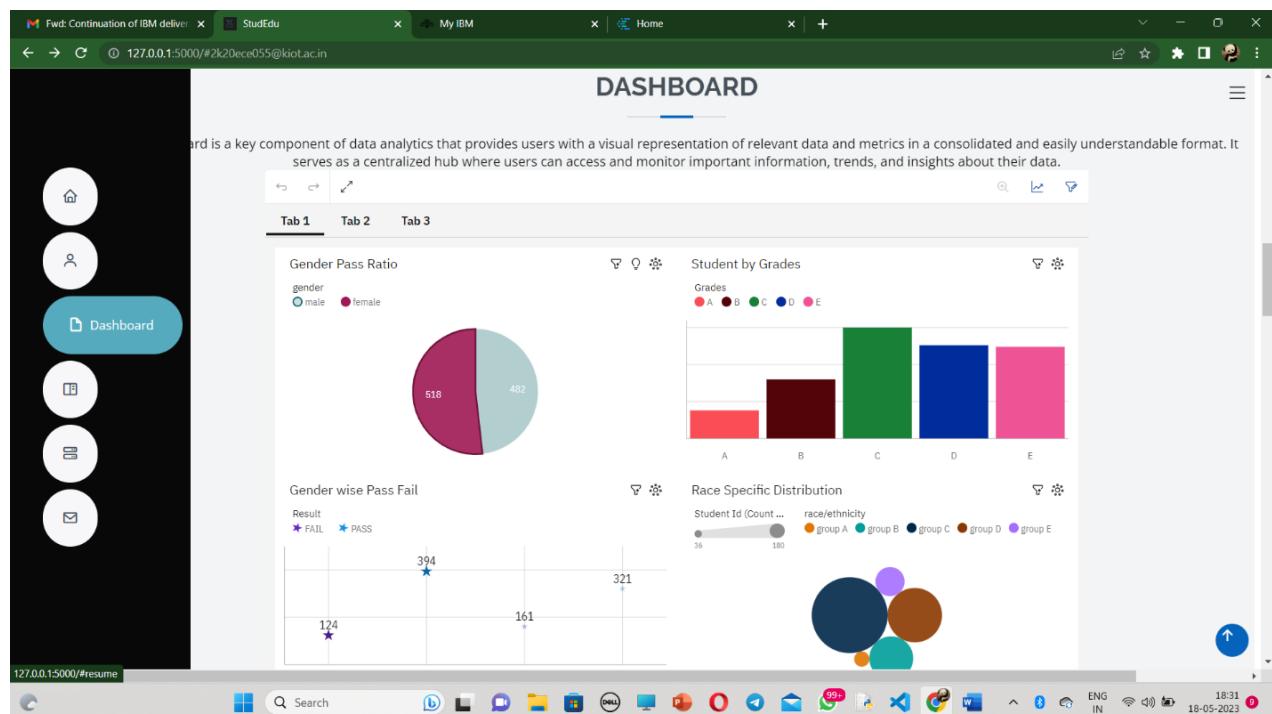
6.1 FEATURE 1

```
from flask import Flask,render_template
app=Flask(__name__)
@app.route('/',methods=["GET","POST"])
def home():
    return render_template('index.html')
if __name__=="__main__":
    app.run(debug=True)
```

6.2 FEATURE 2

DASHBOARD:

```
<iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2Fsp_dashboard&closeWindowOnLastView=true&ui_appbar=false&ui-navbar=false&shareMode=embedded&action=view&mode=dashboard&subView=model000018823a851c8_00000002" width="1000" height="800" frameborder="0"
gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
```



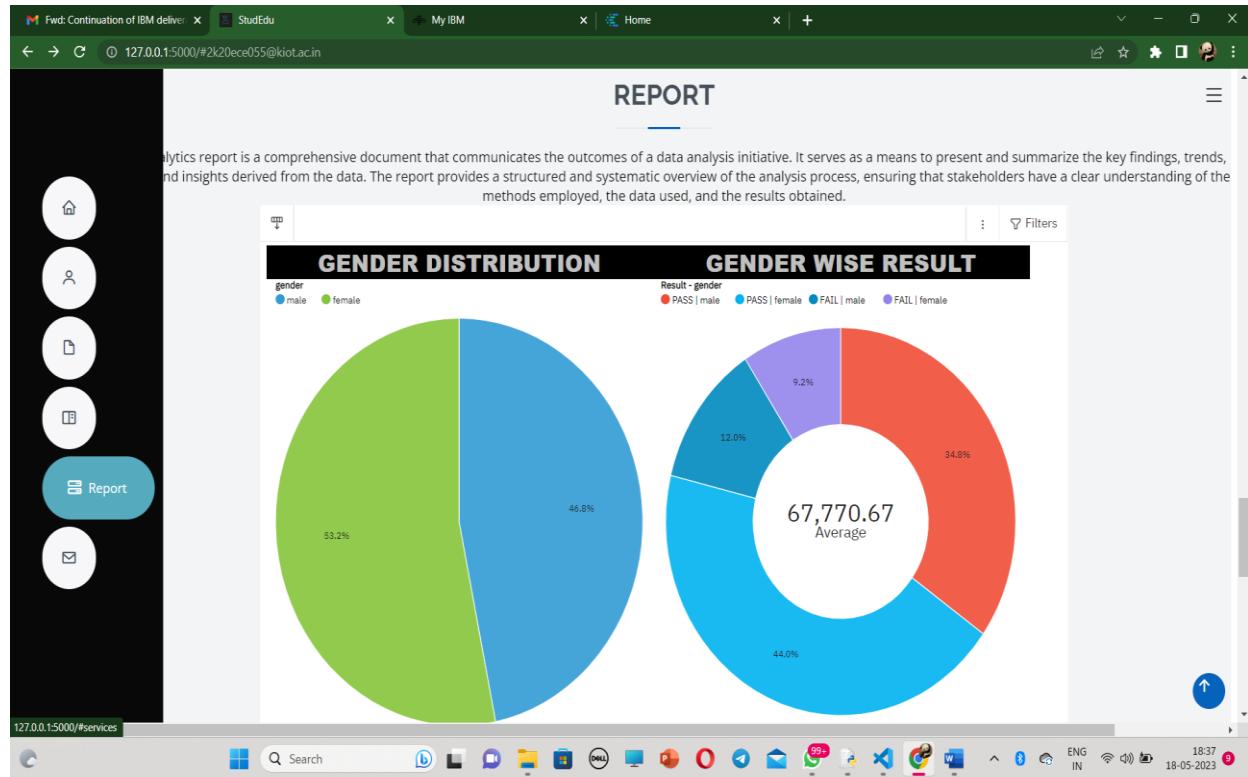
STORY:

```
<iframe  
src="https://us3.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_folders%2Fsp_story&closeWindowOnLastView=true&ui_appbar=false&ui_navbar=false&shareMode=embedded&action=view&sceneId=mode10000018823cc6c49_00000000&sceneTime=0" width="1200" height="800" frameborder="0"  
gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
```



REPORT:

```
<iframe  
src="https://us3.ca.analytics.ibm.com/bi/?pathRef=.my_folders%2Fst_report&closeWindowOnLastView=true&ui_appbar=false&ui_navbar=false&shareMode=embedded&action=run&format=HTML&prompt=false" width="1000"  
height="800" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
```



RESULT

CHAPTER – 7

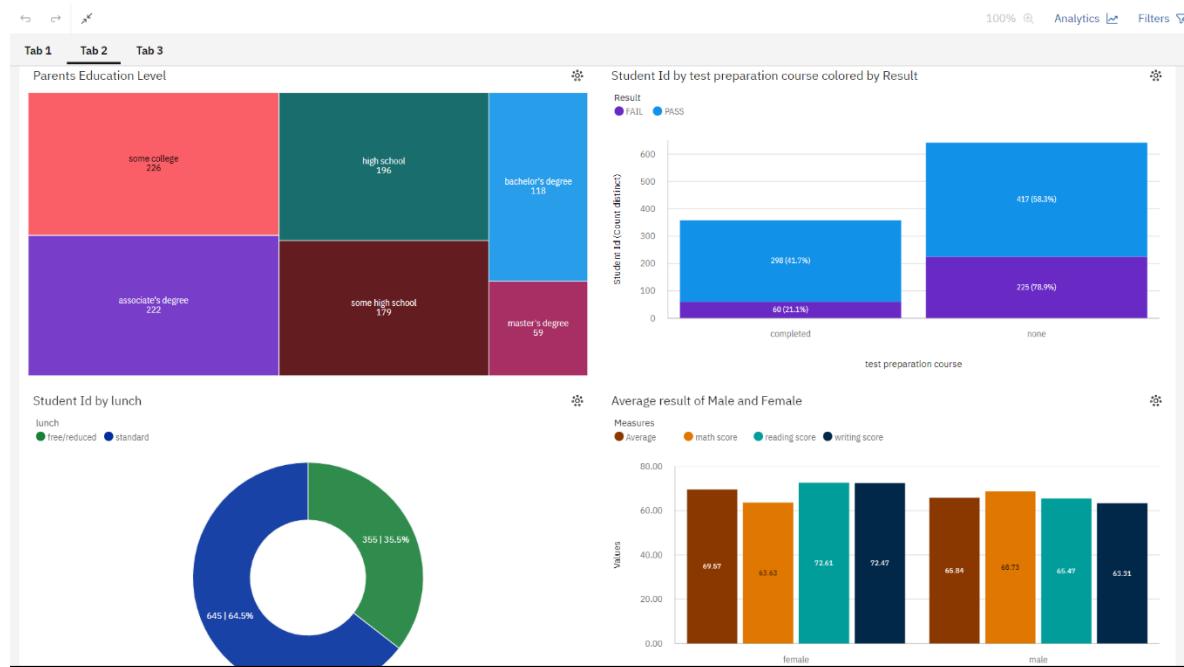
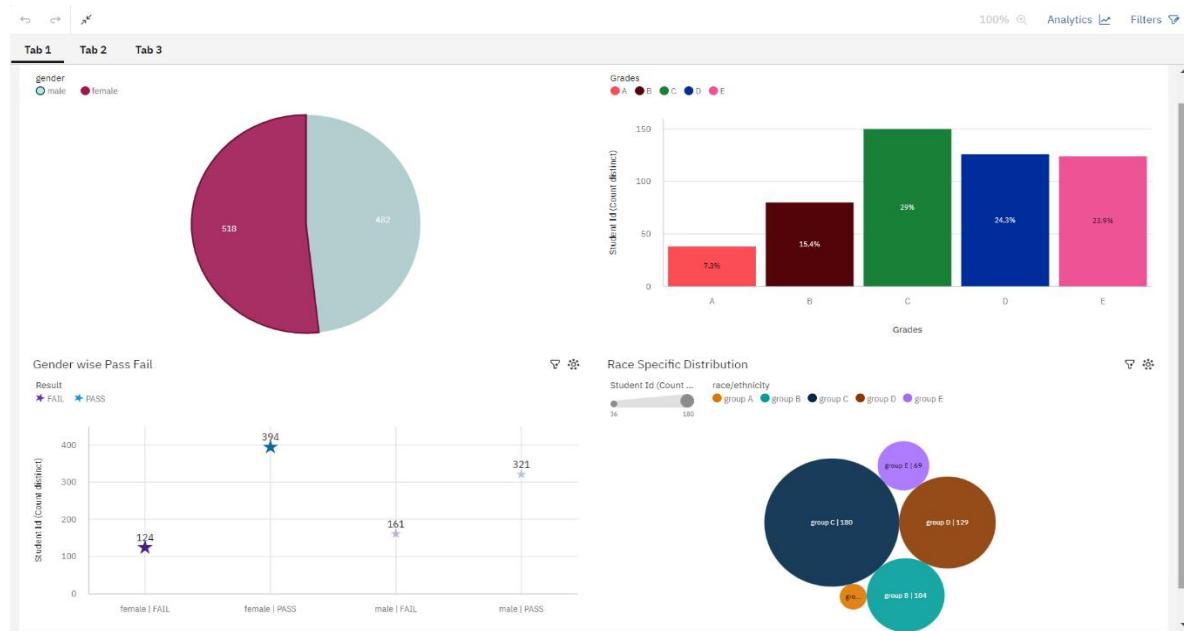
RESULT

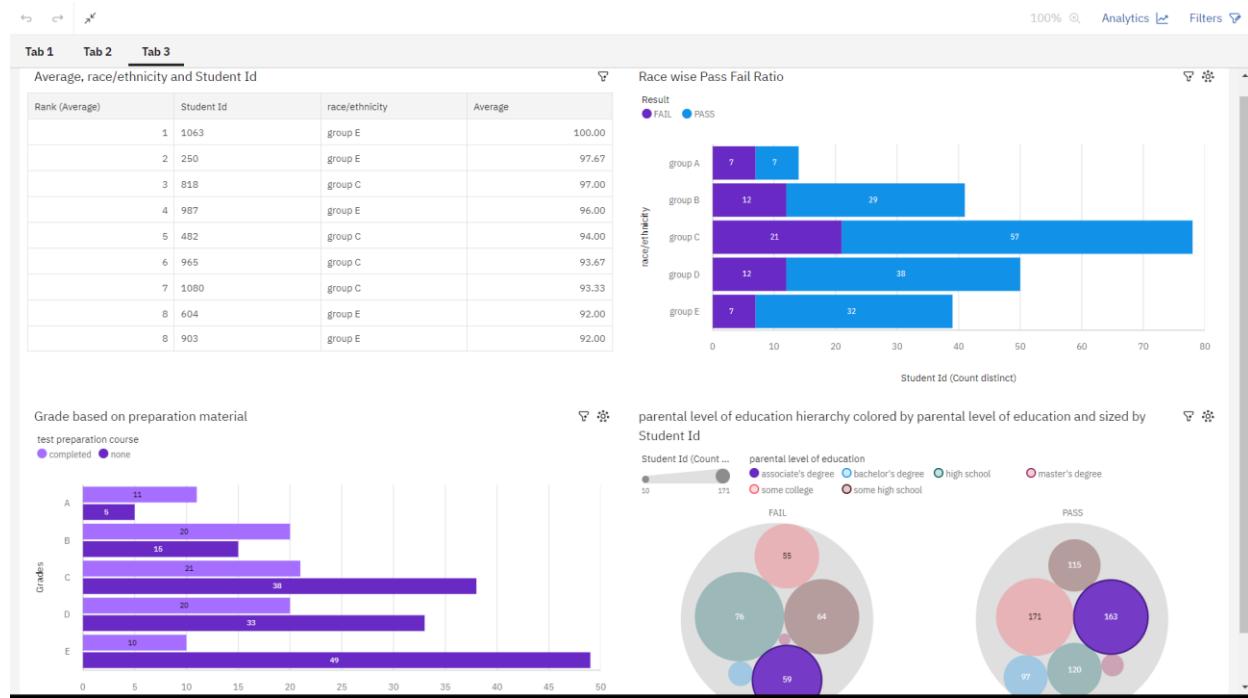
7.1 PERFORMANCE METRIX

1. Dashboard design

No of Tabs: 3

No of Visualization: 12





2. Data Responsiveness

Data Responsiveness : YES

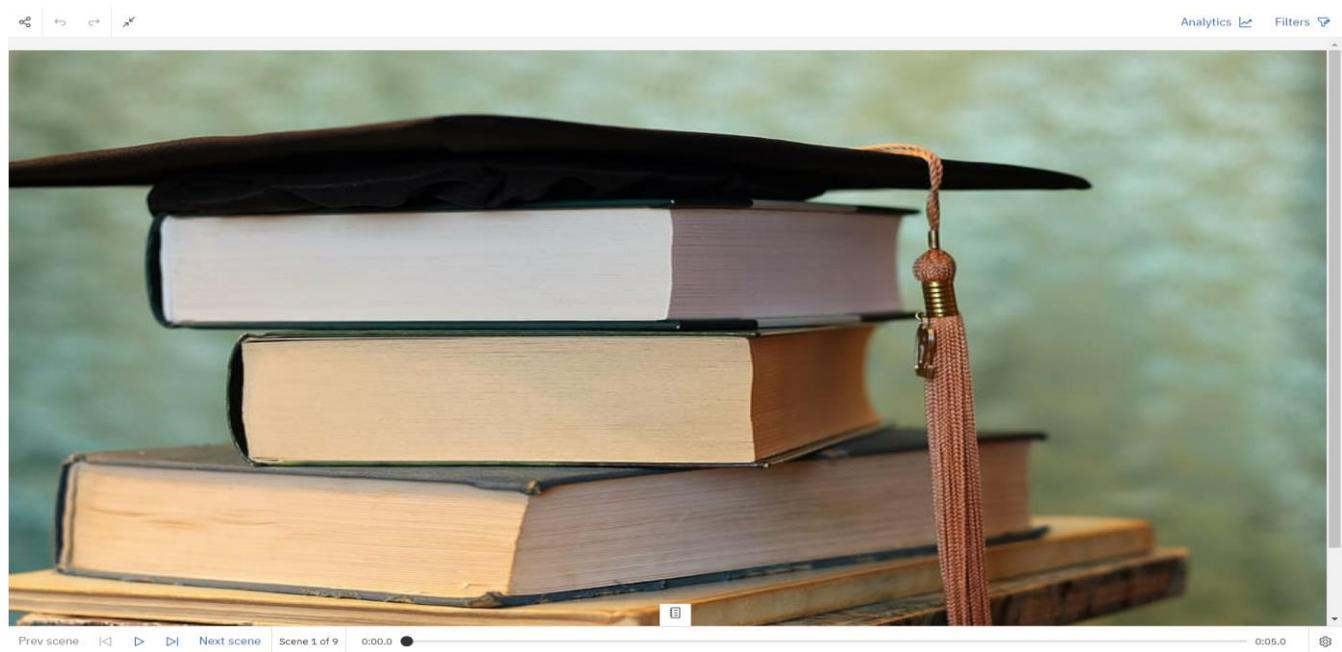
3. Utilization of Data Filters

Utilization of Data Filters : YES

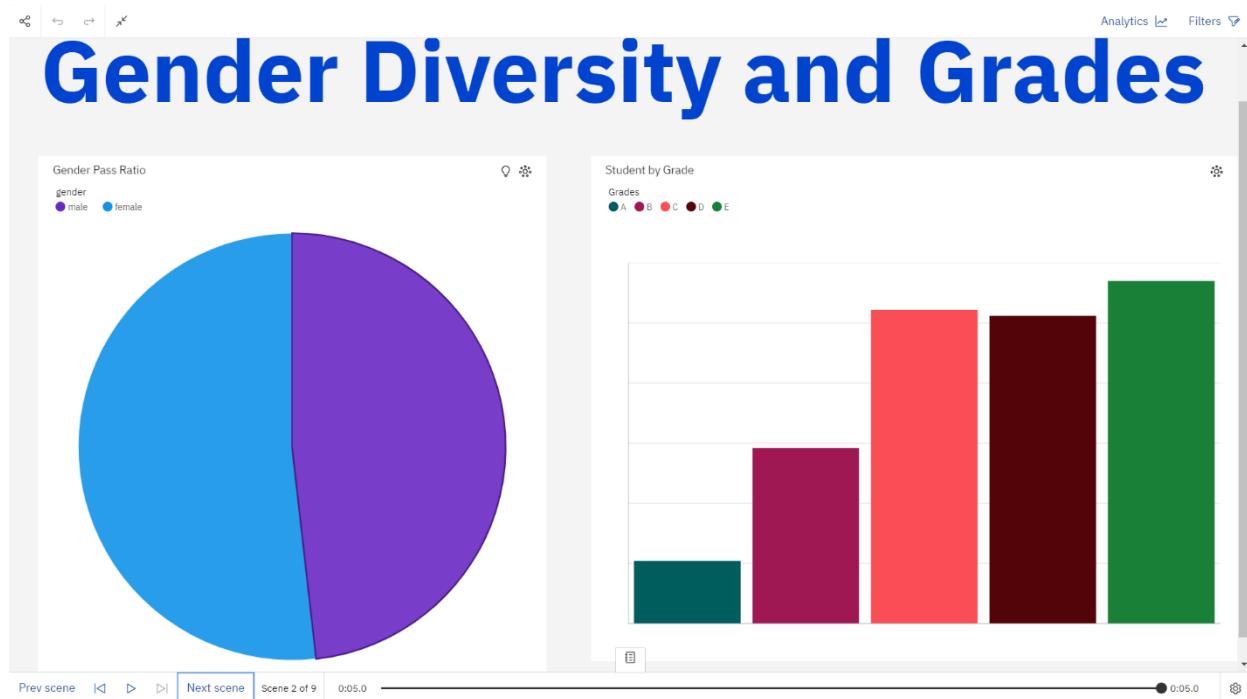
No of Data Filters Used :3

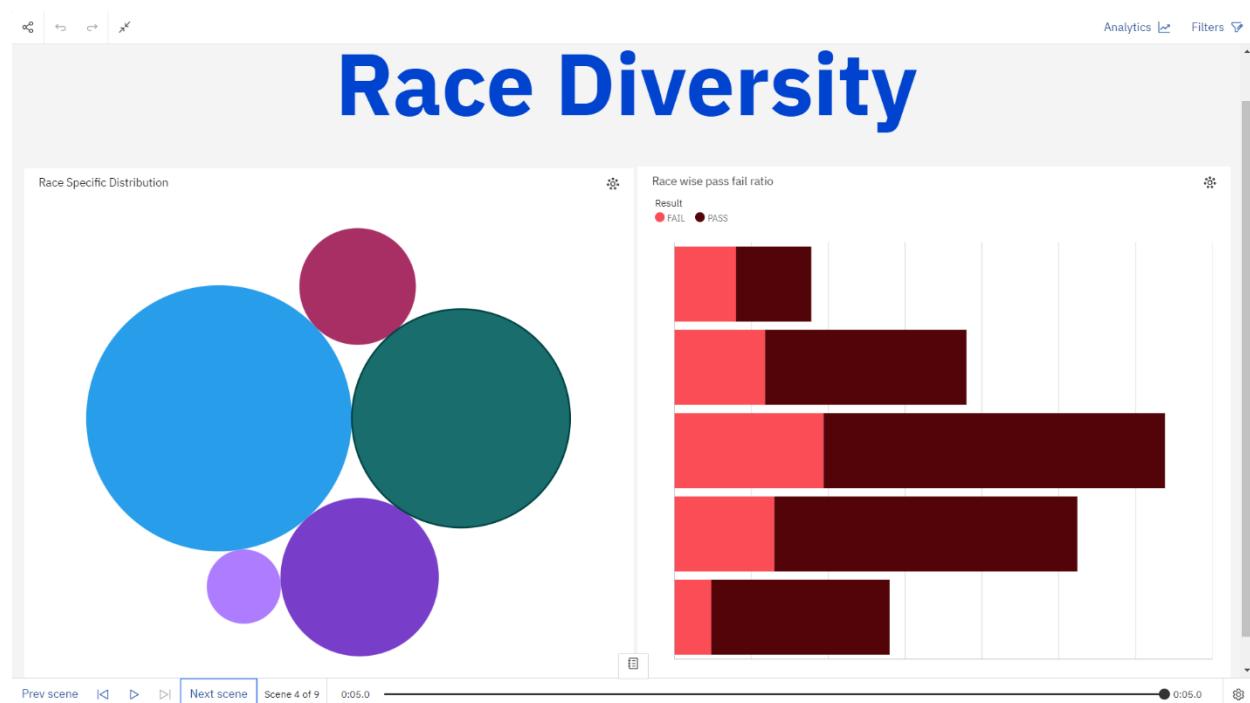
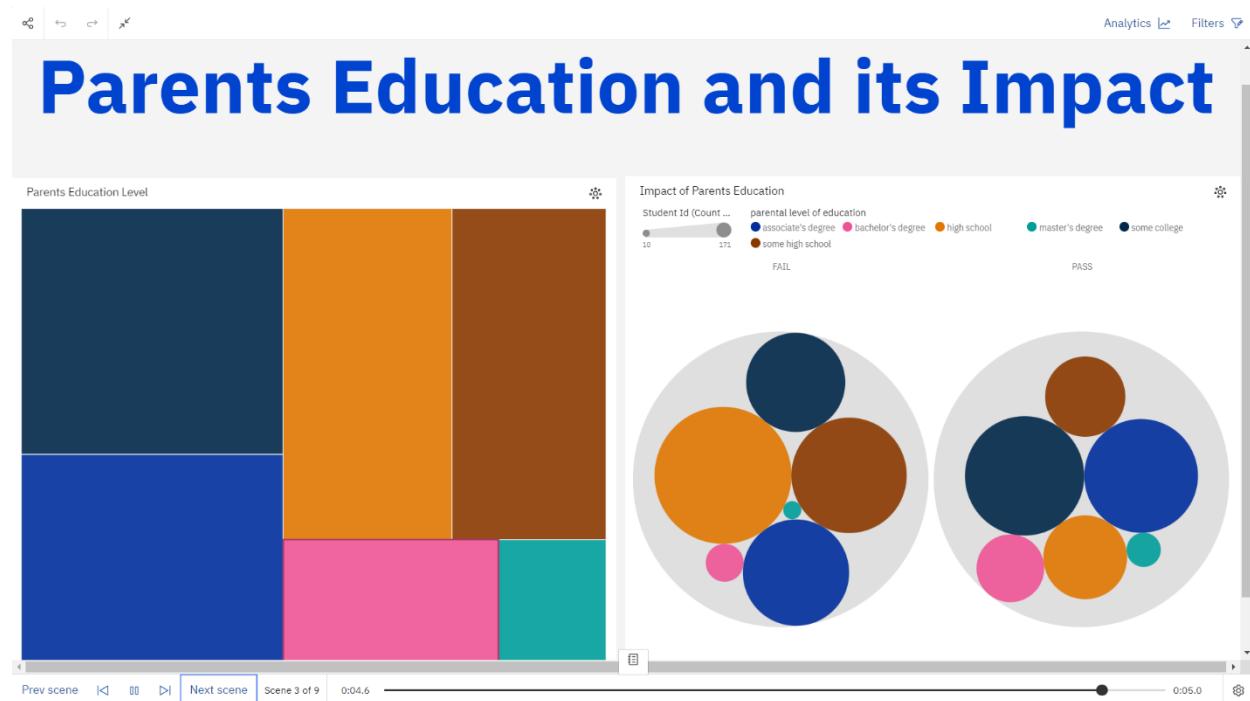
4. Effective User Story

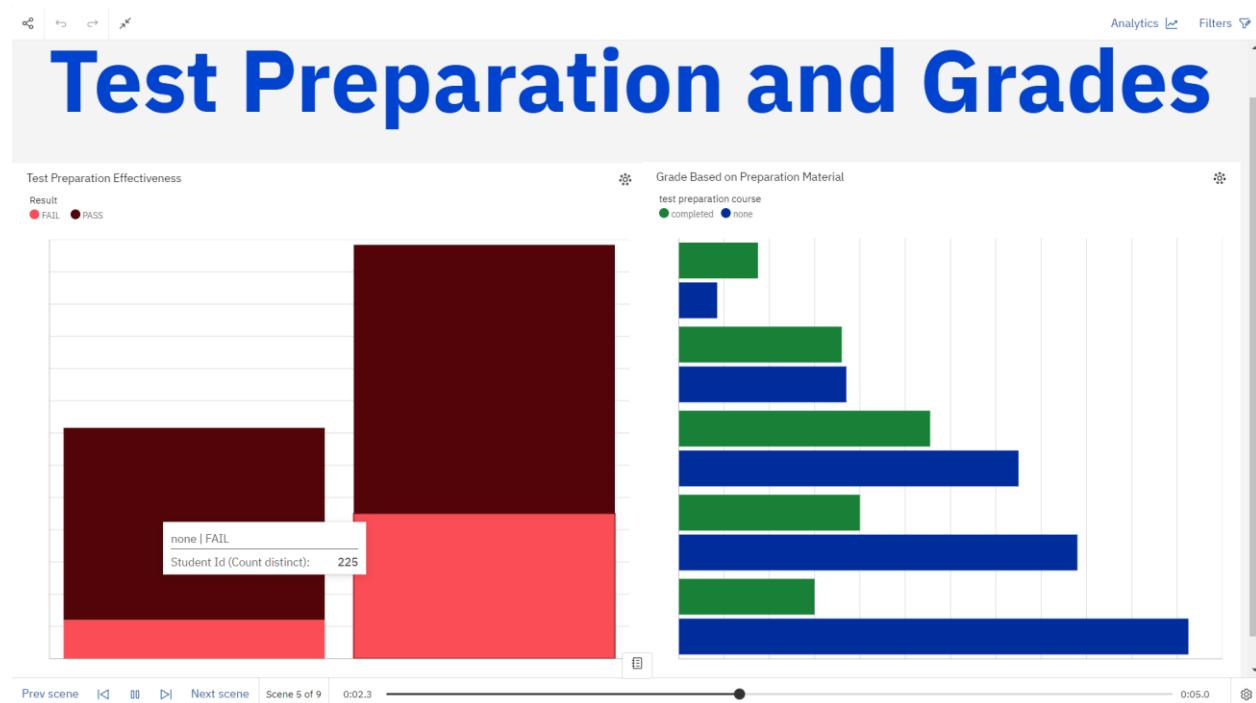
No of Scene Added : 4



Prev scene ⏪ ⏩ Next scene Scene 1 of 9 0:00.0 0:05.0 ⏴

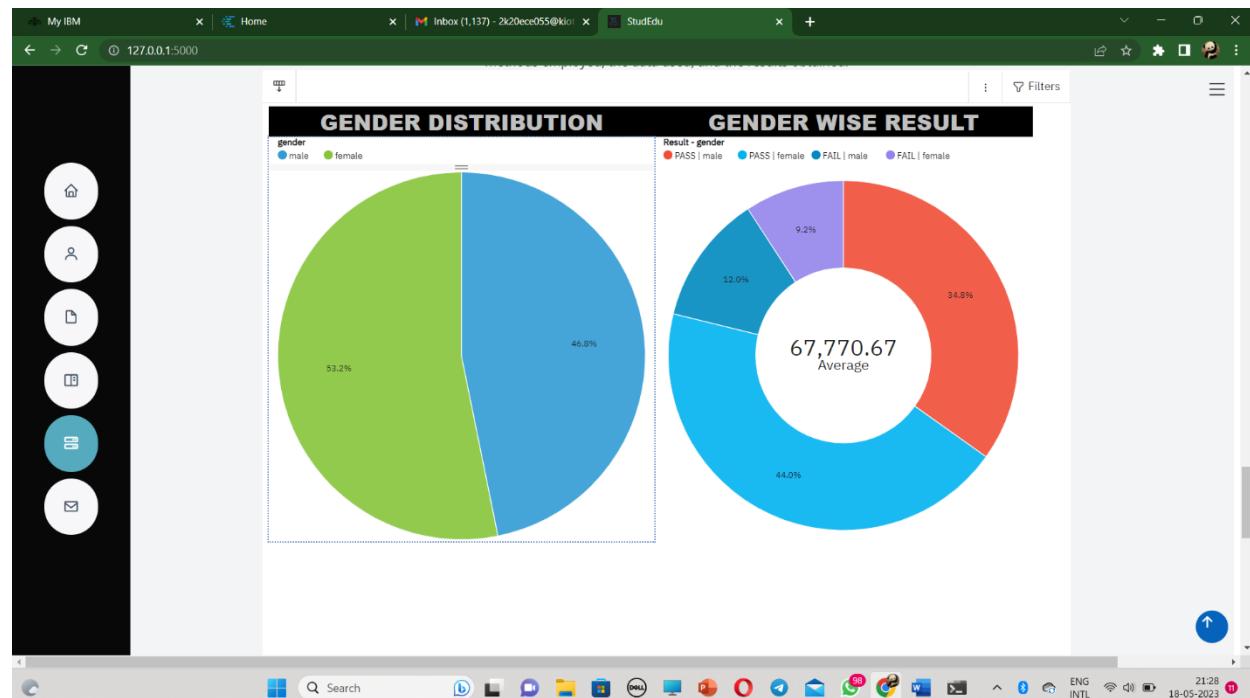


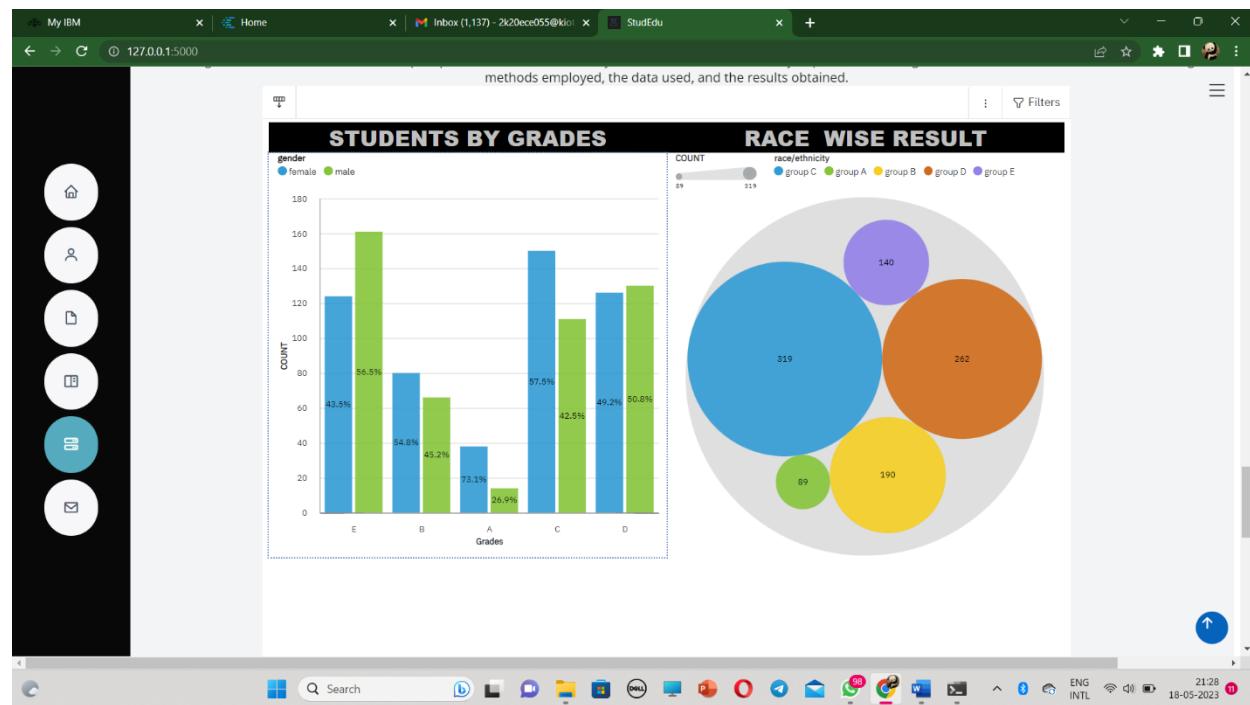




5. Descriptive Reports

No of Visualizations / Graphs : 4





8.ADVANTAGES & DISADVANTAGES

8.1 ADVANTAGES

1. Identification of strengths and weaknesses: Analysing student performance allows educators to identify individual strengths and weaknesses. This information helps in tailoring instruction and interventions to meet the specific needs of each student, ensuring a more effective learning experience.

2. Curriculum improvement: Analysing student performance data at a broader level can provide insights into the effectiveness of the curriculum and instructional methods. It allows educators to identify areas where the curriculum may need revision or improvement to better meet the needs of students.

8.2 DISADVANTAGES

Pressure and stress: Intense focus on performance analysis and high-stakes testing can create significant pressure and stress on students, leading to anxiety and negative effects on their well-being. It is essential to balance assessment practices with a supportive and nurturing learning environment to promote holistic development.

9. CONCLUSION:

In conclusion, student performance analysis provides valuable insights that can inform instructional practices, interventions, and policy decisions in education. It allows educators to identify individual strengths and weaknesses, implement targeted interventions, and improve the curriculum. Additionally, performance analysis promotes accountability and evidence-based decision-making, ensuring transparency and driving educational improvements.

10. FUTURE SCOPE:

Building upon student performance analysis, personalized learning can be further developed and implemented. By tailoring instruction and learning experiences to individual students' strengths, weaknesses, and interests, personalized learning can optimize engagement, motivation, and academic achievement. Integrating technology, adaptive learning platforms, and artificial intelligence can facilitate personalized learning on a larger scale.

10. APPENDIX:

SOURCE CODE:

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">

  <title>StudEdu</title>
  <meta content="" name="description">
  <meta content="" name="keywords">
```

```

<!-- Favicons -->
<link href="{{ url_for('static', filename='assets/img/spa_icon-
transformed.png')}}" rel="icon">
<link href="{{ url_for('static', filename='assets/img/icon.jpg')}}" rel="apple-touch-icon">

<!--{{ url_for('static', filename='style.css')}}-->

<!-- Google Fonts -->
<link
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,60
0i,700,700i|Raleway:300,300i,400,400i,500,500i,600,600i,700,700i|Poppins:300,300
i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">

<!-- Vendor CSS Files -->
<link href="{{ url_for('static', filename='assets/vendor/aos/aos.css')}}" rel="stylesheet">
<link href="{{ url_for('static', filename='assets/vendor/aos/aos.css')}}" rel="stylesheet">
<link href="{{ url_for('static', filename='assets/vendor/bootstrap-
icons/bootstrap-icons.css')}}" rel="stylesheet">
<link href="{{ url_for('static',
filename='assets/vendor/boxicons/css/boxicons.min.css')}}" rel="stylesheet">
<link href="{{ url_for('static',
filename='assets/vendor/glightbox/css/glightbox.min.css')}}" rel="stylesheet">
<link href="{{ url_for('static', filename='assets/vendor/swiper/swiper-
bundle.min.css')}}" rel="stylesheet">

<!-- Vendor CSS Files
<link href="assets/vendor/aos/aos.css" rel="stylesheet">
<link href="assets/vendor/aos/aos.css" rel="stylesheet">
<link href="assets/vendor/bootstrap-icons/bootstrap-icons.css"
rel="stylesheet">
<link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
<link href="assets/vendor/glightbox/css/glightbox.min.css" rel="stylesheet">
<link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">-->

<!-- Template Main CSS File -->
<link href="{{ url_for('static', filename='assets/css/style.css')}}" rel="stylesheet">

<!-- Template Main CSS File
<link href="assets/css/style.css" rel="stylesheet">>-->
</head>

<body>
```

```

<!-- ===== Mobile nav toggle button ===== -->
<!-- <button type="button" class="mobile-nav-toggle d-xl-none"><i class="bi bi-list mobile-nav-toggle"></i></button> -->
<i class="bi bi-list mobile-nav-toggle d-lg-none"></i>
<!-- ===== Header ===== -->
<header id="header" class="d-flex flex-column justify-content-center">

    <nav id="navbar" class="navbar nav-menu">
        <ul>
            <li><a href="#hero" class="nav-link scrollto active"><i class="bx bx-home"></i> <span>Home</span></a></li>
            <li><a href="#about" class="nav-link scrollto"><i class="bx bx-user"></i> <span>About</span></a></li>
            <li><a href="#resume" class="nav-link scrollto"><i class="bx bx-file-blank"></i> <span>Dashboard</span></a></li>
            <li><a href="#portfolio" class="nav-link scrollto"><i class="bx bx-book-content"></i> <span>Story</span></a></li>
            <li><a href="#services" class="nav-link scrollto"><i class="bx bx-server"></i> <span>Report</span></a></li>
            <li><a href="#contact" class="nav-link scrollto"><i class="bx bx-envelope"></i> <span>Contact</span></a></li>
        </ul>
    </nav><!-- .nav-menu -->

</header><!-- End Header -->

<!-- ===== Hero Section ===== -->
<section id="hero" class="d-flex flex-column justify-content-center">
    <div class="container" data-aos="zoom-in" data-aos-delay="100">
        <h1>Student Performance Analysis</h1>
        <p><span class="typed" data-typed-items="Hi !!, Welcome, To, This Analysis"></span></p>
        <div class="social-links">
            <a href="mailto:2k20ece055@kiot.ac.in" class="facebook"><i class='bx bx-envelope'></i></a>
            <a href="https://wa.me/919597438992?Hello! How can I help you?" class="google-plus"><i class="bx bxl-whatsapp"></i></a>
            <a href="#" class="linkedin"><i class="bx bxl-linkedin"></i></a>
        </div>
    </div>
</section><!-- End Hero -->

<main id="main">

    <!-- ===== About Section ===== -->

```

```

<section id="about" class="about">
  <div class="container" data-aos="fade-up">

    <div class="section-title">
      <h2>About</h2>

    </div>

    <div class="row">
      <div class="col-lg-4">
        
      </div>
      <div class="col-lg-6 pt-4 pt-lg-0 content">
        <h3>Student Performance Analysis</h3>

        <ul>
          <li>Student performance analysis is the process of evaluating and assessing the academic progress of students in a particular educational institution or program.</li>
          <li>This analysis helps educators and administrators to identify areas where students are excelling or struggling and to make informed decisions about curriculum development, instruction, and student support services.</li>
          <li>Student performance analysis can also be used to evaluate the effectiveness of teaching methods and instructional materials, and to identify areas where improvements can be made.</li>
          <li>Additionally, it can inform decisions about resource allocation, such as the allocation of funding for academic programs or professional development for educators.</li>
          <li>Overall, a student performance analysis system can help schools improve student outcomes, increase graduation rates, and close the achievement gap.</li>
        </ul>
      </div>
    </div>

  </div>
</section><!-- End About Section -->

<!-- ===== Resume Section ===== -->
<section id="resume" class="resume">
  <div class="container" data-aos="fade-up">

    <div class="section-title">
      <h2>Dashboard</h2>
    
```

```
<p>The dashboard is a key component of data analytics that provides users with a visual representation of relevant data and metrics in a consolidated and easily understandable format. It serves as a centralized hub where users can access and monitor important information, trends, and insights about their data.</p>
<iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2Fsp_dashboard&closeWindowOnLastView=true&ui_appbar=false&ui-navbar=false&shareMode=embedded&action=view&mode=dashboard&subView=model0000018823a851c8_00000002" width="1000" height="800" frameborder="0"
gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>

</div>
</div>
</section>

<!-- ===== Portfolio Section ===== -->
<section id="portfolio" class="portfolio section-bg">
<div class="container" data-aos="fade-up">

    <div class="section-title">
        <h2>Story</h2>
        <p>Story refers to a narrative or a sequence of events created using data to communicate insights, trends, and findings in a compelling and coherent manner. It involves combining data visualizations, explanations, and context to tell a story that guides the audience through the data analysis process and highlights the key takeaways.</p>
        <iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_folders%2Fsp_story&closeWindowOnLastView=true&ui_appbar=false&ui-navbar=false&shareMode=embedded&action=view&sceneId=model0000018823cc6c49_0000000&sceneTime=0" width="1200" height="800" frameborder="0"
gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>

    </div>
    </div>
</section>

<!-- ===== Services Section ===== -->
<section id="services" class="services">
<div class="container" data-aos="fade-up">

    <div class="section-title">
        <h2>Report</h2>
```

```
<p>A data analytics report is a comprehensive document that  
communicates the outcomes of a data analysis initiative. It serves as a means to  
present and summarize the key findings, trends, patterns, and insights derived  
from the data. The report provides a structured and systematic overview of the  
analysis process, ensuring that stakeholders have a clear understanding of the  
methods employed, the data used, and the results obtained.</p>  
<iframe  
src="https://us3.ca.analytics.ibm.com/bi/?pathRef=.my_folders%2Fst_report&cl  
oseWindowOnLastView=true&ui_appbar=false&ui_navbar=false&shareMode=e  
mbedded&action=run&format=HTML&prompt=false" width="1000"  
height="800" frameborder="0" gesture="media" allow="encrypted-media"  
allowfullscreen=""></iframe>  
  
</div>  
</div>  
</section>  
  
<!-- ===== Contact Section ===== -->  
<section id="contact" class="contact">  
  <div class="container" data-aos="fade-up">  
  
    <div class="section-title">  
      <h2>Contact</h2>  
    </div>  
  
    <!--<div class="section">  
      <div class="content justify-content-center">  
        <div class="address">  
          <i class="bi bi-geo-alt"></i>  
          <h4>Location:</h4>  
          <p>KIOT, Salem</p>  
        </div>  
  
        <div class="email">  
          <i class="bi bi-envelope"></i>  
          <h4>Email:</h4>  
          <p>priyankka2003@gmail.com</p>  
        </div>  
  
        <div class="phone">  
          <i class="bi bi-phone"></i>  
          <h4>Call:</h4>  
          <p>+91 9597438992</p>  
        </div>  
  
      </div>  
    </div>
```

```
</div>-->

<div class="row mt-1">

    <div class="dummy">
        <div class="info">
            <div class="address">
                <i class="bi bi-geo-alt"></i>
                <h4>Location:</h4>
                <p>KIOT, Salem</p>
            </div>

            <div class="email">
                <i class="bi bi-envelope"></i>
                <h4>Email:</h4>
                <p>priyankka2003@gmail.com</p>
            </div>

            <div class="phone">
                <i class="bi bi-phone"></i>
                <h4>Call:</h4>
                <p>+91 9597438992</p>
            </div>
        </div>
    </div>

    </div>
</div>

</div>
</section> <!--End Contact Section -->

</main><!-- End #main -->

<!-- ===== Footer ===== -->
<footer id="footer">
    <div class="container">
        <h3>Student Performance Analysis</h3>
        <p>We value your feedback, questions, and suggestions. Our team is here to assist you and provide the support you need. Please feel free to reach out to us using the contact information below or by filling out the contact form. We look forward to hearing from you!</p>
        <div class="social-links">
            <a href="mailto:2k20ece055@kiot.ac.in" class="facebook"><i class='bx bx-envelope'></i></a>
            <a href="#" class="instagram"><i class="bx bxl-instagram"></i></a>
        </div>
    </div>
</footer>
```

```

        <a href="https://wa.me/919597438992?Hello! How can I help you?">
    <div>
        <a href="#" class="google-plus"><i class="bx bxl-whatsapp"></i></a>
        <a href="#" class="linkedin"><i class="bx bxl-linkedin"></i></a>
    </div>
    <div class="copyright">
        &copy; Copyright <strong><span>StudEdu</span></strong>. All Rights Reserved
    </div>
    <div class="credits">
        <!-- All the links in the footer should remain intact. -->
        <!-- You can delete the links only if you purchased the pro version. -->
        <!-- Licensing information: [license-url] -->
        <!-- Purchase the pro version with working PHP/AJAX contact form:
https://bootstrapmade.com/free-html-bootstrap-template-my-resume/ -->
        Designed by <a href="https://bootstrapmade.com/">StudEdu Team</a>
    </div>
    </div>
</footer><!-- End Footer -->

<div id="preloader"></div>
<a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i class="bi bi-arrow-up-short"></i></a>

<!-- Vendor JS Files -->
<script src="{{ url_for('static', filename='assets/vendor/purecounter/purecounter_vanilla.js')}}"></script>
<script src="{{ url_for('static', filename='assets/vendor/aos/aos.js')}}"></script>
<script src="{{ url_for('static', filename='assets/vendor/bootstrap/js/bootstrap.bundle.min.js')}}"></script>
<script src="{{ url_for('static', filename='assets/vendor/glightbox/js/glightbox.min.js')}}"></script>
<script src="{{ url_for('static', filename='assets/vendor/isotope-layout/isotope.pkgd.min.js')}}"></script>
<script src="{{ url_for('static', filename='assets/vendor/swiper/swiper-bundle.min.js')}}"></script>
<script src="{{ url_for('static', filename='assets/vendor/typed.js/typed.min.js')}}"></script>
<script src="{{ url_for('static', filename='assets/vendor/waypoints/noframework.waypoints.js')}}"></script>
<script src="{{ url_for('static', filename='assets/vendor/php-email-form/validate.js')}}"></script>

<!-- Template Main JS File -->
<script src="{{ url_for('static', filename='assets/js/main.js')}}"></script>

<!-- Vendor JS Files -->

```

```
<script src="assets/vendor/purecounter/purecounter_vanilla.js"></script>
<script src="assets/vendor/aos/aos.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
<script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
<script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
<script src="assets/vendor/typed.js/typed.min.js"></script>
<script src="assets/vendor/waypoints/noframework.waypoints.js"></script>
<script src="assets/vendor/php-email-form/validate.js"></script>-->

<!-- Template Main JS File
<script src="assets/js/main.js"></script>

</body>

</html>
```

Demo Link:

https://drive.google.com/file/d/1pxnWF3okFK4SHHQ--oyvqvZqtbSjNaCH/view?usp=share_link

GitHub Link:

[https://github.com/ARG-007/
NM2023TMID02554_DataAnalytics_StudentPerformanceAnalysis](https://github.com/ARG-007/NM2023TMID02554_DataAnalytics_StudentPerformanceAnalysis)

