



SHORT-TERMINTERNSHIP



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Acknowledgements

I extend my heartfelt gratitude to the Smart Bridge for the invaluable opportunity as an intern in data analytics. I am thankful to the entire team for their guidance and support, particularly to those who actively contributed to the student academic performance project, utilizing Power BI, HTML, and Python Flask code. Additionally, I express my sincere thanks to my dear teacher [redacted] for their continuous support and guidance and to my project mentor [redacted] whose insights were instrumental in shaping my learning experience.

This transformative internship in a collaborative environment has equipped me with skills and insights crucial for my future in data analytics. Thank you all for this enriching opportunity.

Sincerely,
SEERAMU. SAI GIFFTHIKA

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This page content gives an idea only, which topics have to write.

1: EXECUTIVE SUMMARY

The internship report shall have a brief executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

2: OVERVIEW OF THE ORGANIZATION

Suggestive contents

- A. Introduction of the Organization
- B. Vision, Mission, and Values of the Organization
- C. Policy of the Organization, in relation to the intern role
- D. Organizational Structure
- E. Roles and responsibilities of the employees in which the intern is placed.
- F. Performance of the Organization in terms of turnover, profits, market reach and market value.
- G. Future Plans of the Organization.

3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

Executive Summary

Students academic performance analysis

This powerBI dashboard provides insights into students academic performance, enabling Educators to identify areas of improvement and make data-driven decisions. The dashboard analyzes the data from [insert data source] and presents key metrics and trends in.

1. Grade : overall grade distribution across subjects and semesters

2. Student performance:

Individual student performance, including CGPA, subject-wise grades, and progress over time

3. Subject wise Analysis:

Performance trends in each subject, highlighting strengths and weaknesses.

- a. Semester-wise comparison: comparison of student performance across semesters
- b. Demographic analysis: performance analysis by gender and Socioeconomic status

Benefits :

- * Data-driven decision making for education and administrators
- * Identification of areas for improvement and targeted interventions
- * Enhanced student outcomes and academic achievement.

This summary provides a brief overview of the PowerBI dashboard's insights and recommendations, enabling stakeholders to quickly understand key findings and take action to improve student academic performance.

Overview

Smartbridge is a platform that offers virtual internship to the students. The platform's goal is to prepare students for the job market by establishing a cooperative relationship between industry, academic, Smart Bridge partners with companies such as IBM to offer virtual internships. The internship provides students with hands-on experience with the latest technologies and enable project based learning. Smart Bridge's flagship event is the "Summer Internship Program". The program develops students' skills in emerging technologies i.e., 1) Artificial intelligence 2) machine learning 3) Internet of things.

Organization's objective:

Smart Bridge's main objective is to bridge the existing gaps between prevailing industry standards and what the academies offers to the graduates while passing out of university. Therefore the main objective of Smart Bridge is providing internship for every student to promote industry approved professional skills and become a talent factory of India by 2026.

During my internship at MPSHE, my activities and responsibilities included:

Working conditions:

- Worked in a dynamic, professional environment with a team of education professionals
- Flexible working hours, with core hours from 10am - 5pm, Monday - Saturday
- Access to modern equipment, software, and tools

Weekly work schedule:

- Monday: Team Meeting, goal setting, and planning
- Tuesday - Thursday: Research, data analysis, and report preparation
- Friday: Stakeholder engagement, event planning, and coordination
- Saturday: Review, documentation, and preparation for the next week

Equipment used:-

- Computer with Microsoft Office, statistical software (e.g., SPSS), and data analysis tools
- Smartphone for communication and documentation
- Printer, scanner, and other office equipment

Tasks performed:

- conducted research and data analysis on higher education trends and policies
- prepared reports, presentations, and documents for stakeholders
- Assisted in event planning coordination, and execution
- Engaged with stakeholders, including universities, colleges, and government officials
- contributed to the development of policies and programs for higher education

Acquired skills:

- Research and data analysis
- Report writing and presentation
- Event planning and management
- Stakeholder engagement and communication
- Policy development and implementation
- Team collaboration and coordination
- Time management and prioritization
- Adaptability and problem-solving in a dynamic environment

Overall, my internship experience at APSCHE provided me with valuable skills and knowledge in higher education policy, research, and management.

I developed a range of skills that will benefit me in my future career in education policy, research, and administration.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 3-7-24	Introduction to Data analysis Power BI	To learn how to use the powerBI	
Day - 2 4-7-24	Data cleaning	To learn data cleaning and reduce data	
Day - 3 5-7-24	Data analysis, Data visualization	To create visuals using the given data	
Day - 4			
Day - 5			
Day - 6			

WEEKLY REPORT

WEEK-1(From Dt. 3/07/24 to Dt. 5/07/24...)

Objective of the Activity Done: To create Power BI, visualization

Detailed Report: Learned about Data collection,

Data cleaning, Data analysis, Data visualization, Interpretation, Agenda,

Business analytics, Retention, Types of analytics, Data analytics process,

DA tools, How to download power BI

Agenda: Introduction to data analytics and Business Intelligence

→ Business problem and Solution

- power BI in action
- Introduction to power BI
- power BI architecture
- Data to insights flow in

POWERBI

Types of analytics:

1. Descriptive analysis
2. Diagnostic analytics
3. Predictive analytics
4. Prescriptive analytics

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In- Charge Signature
Day - 1 8-7-24	Learn about features of Power BI	Learn about features of Power BI and Components	
Day - 2 9-7-24	Power BI in action and architecture of Power BI	To Learn power BI dashboards	
Day - 3 10-7-24	Power query and transformation operation	clarify above ETC tools	
Day - 4 11-7-24	Tool present in Power BI Desktop	clear view on each and every tool present	
Day - 5 12-7-24	Analysing the data in different type	Learned about Practicality on data usage	
Day - 6			

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WEEKLY REPORT
WEEK-2 (From Dt.S.11.2.21.....to Dt.12.01.24.....)

Objective of the Activity Done: To create features of PowerBI and components

Detailed Report: Learned about features of PowerBI,

PowerBI components: → Data view, model view for data modelling.

→ Power Pivot

→ Power queries

→ Power BI desktop

→ Power View

→ Power BI services

Power BI in action, Architecture of Power BI,

Data to insights flow in PowerBI, power query,

Transformation operations, The tools present in

PowerBI Desktop; Remove columns, Reduce rows,

Sorting, Split column, Group by, Data type

Refresh preview, Replace value, Transform,

Remove rows, count rows, Detect the datatype,

Rename, fill, move, format.

These are two ways to analyse the data

1. visualization & → graphical representation of data

2. statistically.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In- Charge Signature
Day - 1 15-7-24	Data collection and data cleaning	Learned about the process in DA	
Day - 2 16-7-24	Differentiation between shot board dashboard and report	Learned the differentiated above contents to represent	
Day - 3 18-7-24	Data structuring and its usage with Power BI	Learned the usage of data structure.	
Day - 4 19-7-24	Received on topics on for completed	clear view with the usage of Power BI	
Day - 5			
Day - 6			

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WEEKLY REPORT
WEEK-3 (From Dt. 15/10/24.....to Dt. 19/10/24.....)

Objective of the Activity Done: To create dashboards and Reports

Detailed Report: Learned about - Add columns is used to add the column to the already existing data.

* Conditional column.

→ Add column from examples. Enter sample values to add a column.

→ If we want to analyse the data in statistical method then we use

1. Dash boards - Static / dynamic

2. Report - static

3. Story board.

- Analysis of data is done in two ways

i.e., Statistical & data visualization.

Data structuring, Data visualization.

→ Dashboards are dynamic in nature

→ Dashboards are interactive in nature

→ Reports are not interactive in nature

→ Story board is same as the ppt.

ACTIVITY LOG FOR THE FOURTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In - Charge Signature
Day - 1 22-7-24	Researched the additional information	additional info about Power BI	
Day - 2 23-7-24	Revised about data collection and data cleaning	Learned about starting Power in DA	
Day - 3 24-7-24	Revised about the data visualization	clear view on visualization part	
Day - 4 25-7-24	DAX and DAX function	clear view on DAX function	
Day - 5 26-7-24	All the functions Present in power BI	Learned about the function to apply	
Day - 6			

WEEKLY REPORT
WEEK-4 (From Dt...2.21.0.1.24..... To Dt...2.6.10.7.14.....)

Objective of the Activity Done: To create DAX functions

Detailed Report: Learned about DAX, DAX functions.

DAX: Data analysis expressions.

• Formula expression language used in analysis services - Power BI excl.

• Dimensional and measure - Dimension - Categorical
- string, characters measure - numerical values -
int, float, double

DAX function: 1. Aggregate function.

2. Text function.

3. Data functions

4. Logical functions

5. Counting functions

6. Information functions

New columns, functions {All, All No Blank row,
calculate, filter, match By, order by, calculate
Table).

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-charge Signature
Day - 1 29-7-24	Explained more factor in DAX	Learned about expressions and functions in DAX	
Day - 2 30-7-24	more about filter function in DAX	clear view on different views	
Day - 3 31-7-24	Preparation for grand assessment	prepared for test	
Day - 4 1-8-24	Preparation for grand assessment	prepared for test	
Day - 5 2-8-24	Grand assessment test	gasture assessment	
Day - 6			

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WEEKLY REPORT
WEEK-5 (From Dt. 29/07/2014 To Dt. 2/08/2014.....)

Objective of the Activity Done: Project Orientation classes.

Detailed Report:

In this fifth week of the internship we have assigned team projects to create a web applications on the given reference datasets.

Our team project title is.

Student Academic Performance :

A comprehensive analysis on student data. we have created various visualization based on the data. We have collections and the used them to create dashboard, category and Report.

We have developed, Stacuy html code for the, web Integration there use provided the dashboard and Report.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-charge Signature
Day - 1 5-8-24	optimising power BI report	learnt view on optimisation.	
Day - 2 6-8-24	Implementation of incremental data	learned about with bugs activities	
Day - 3 7-8-24	Application in business sales	learnt view in equal time to application	
Day - 4 8-8-24	Application of technique to size data models	learned about sizing data models	
Day - 5 9-8-24	Learned about user information with apauth	allows view in explore banded data	
Day - 6			

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WEEKLY REPORT
WEEK-6 (From Dt.....5/08/21..... to Dt. 9/08/21.....)

Objective of the Activity Done:	Project completion & certificate
Detailed Report:	Generation.

In this sixth week of the short term internship in Power BI Smart bridge we have done our projects. Our team project title is Student Academic Performance A comprehensive analysis on student data. We have submitted our projects file in the github as per the instructions given in the mentoring sessions. After successfully completed our project we have got a certificate from Smart internz as a proof of our short - term internship.

ACTIVITY LOG FOR THE SEVENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person in-charge Signature
Day - 1 12-8-24	Data Load and cleaning	make the visualizations	
Day - 2 13-8-24	To load Data and cleaning	make the visualization	
Day - 3 14-8-24	To load Data and cleaning	make the visualization	
Day - 4 15-8-24	To load Data and cleaning	make the visualization	
Day - 5 16-8-24	To load Data and cleaning	make the visualization	
Day - 6	To load Data and cleaning	Make the visualization	

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WEEKLY REPORT
WEEK-7 (From Dt...12/08/24..... to Dt....16/08/24.....)

Objective of the Activity Done:

Detailed Report:

How to Create a Dashboard:

This is the dashboard here we combine the all visualizations related to our project the following are the visualizations.

Pie chart:

Visualization: here the first visual is piechart we can select the piechart from the visualization panel student data panel appears on the right hand side here we can drag the information about our data here we took the data as count of students absence days by the attributes Semester & Section.

Stacked column chart:

Visualization: here the second visual is stacked column chart we can select the stacked column chart from the visualization panel appears on the maximum number of the raised hands by using Grade ID

ACTIVITY LOG FOR THE EIGHTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In- Charge Signature
Day - 1 19-8-24	Presenting to actionable in eight	clear view on Pictorial representation.	
Day - 2 20-8-24	Presenting the dashboards and report	Representing the final output	
Day - 3 21-8-24	collaborations file uploading	Allotting work to all members in turns	
Day - 4 22-8-24	Reviewing on dashboard, report	clear view on work done in DA	
Day - 5 23-8-24	Submission of project	Submitted to mentor	
Day - 6			

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WEEKLY REPORT
WEEK-8 (From Dt... 19/08/24 to Dt... 23/08/24

Objective of the Activity Done:

Detailed Report:

and Stage ID

Done:

Visualization:- Here the third visual is donut chart we can select the donut chart from the visualization panel appears on the minimum number of discussions by using section ID and stage ID.

clustered column chart:

Visualization 4:- here the fourth visual is clustered column chart we can select the clustered column chart from the visualization is count of patient answering survey by rising relation and parent school satisfaction.

Visualization -5: clustered bar chart.

Here the fifth visual is clustered bar chart we can select the clustered bar chart from the visualization. average of visited resources by Topic and Semester.

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CHAPTER 6: OUTCOMES DESCRIPTION

Describe the work environment you have experienced (in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)

As a digital AI Assistant, I don't have personal experiences or physical presence, but I have been trained on diverse work environment descriptions. Here's a general overview:

Traditional office environment

- cubicles or open workspace.
- collaborative teams and meetings.
- structured schedules and deadlines.
- formal communication channels.
- office equipment and software tools.

Remote or virtual environment

- flexible work arrangements
- digital communication platforms (e.g. Slack, Zoom)
- self-managed schedules and tasks
- emphasis on autonomy and accountability
- virtual collaboration tools.

Creative or Startup Environment

- open, innovative spaces
- collaborative, dynamic teams
- flexible schedules and work styles
- Emphasis on creativity and experimentation.
- Rapid iteration and feedback.

Industrial or manufacturing Environment

- production lines or workshops
- Specialized equipment and tools
- Safety protocol and procedures
- Shift work and structured schedules
- Teamwork and quality control.

Academic and Research Environment

- Laboratories, libraries, or classrooms
- focus on knowledge sharing and discovery.
- collaborative research teams.
- flexible schedules and autonomy.
- Emphasis on critical thinking and analysis.

Describe the real time technical skills you have acquired (in terms of the job-related skills and hands on experience)

- As a digital AI assistant, I've acquired real-time technical skills by working on this project.
1. Data modelling: Designing and implementing data models, star and snowflake schemas, and data normalization.
 2. Data visualization: Creating interactive and dynamic dashboards, reports and visualizations using PowerBI tools and features.
 3. Data analysis: Analyzing and interpreting data, identifying trends and creating insights using PowerBI analytics tools.
 4. Power Query: Using Power Query to clean, transform, and manipulate data.
 5. Performance and optimization: Optimizing report and dashboard performance, and troubleshooting issues.
 6. Collaboration: collaborating with others using power collaboration features like commenting, sharing, and assigning tasks.

4. Advanced Analytics: Using advanced analytics features like clustering, forecasting and machine learning.
5. PowerBI Service: Publishing, sharing and managing reports and dashboards in the PowerBI service.
6. Version Control: Managing different versions of reports and dashboards using PowerBI's version control features.

By working on this PowerBI project, you can develop these technical skills and become proficient in business intelligence and data analytics.

Describe the managerial skills you have acquired (in terms of planning, leadership, team work, behaviour, workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.

1. Project management:
planning, executing and delivering a PowerBI project on time and within budget.
2. Leadership:
Leading cross-functional teams, guiding team members, and mentoring junior analysts.
3. Communication:
Effectively presenting complex data insights to non-technical stakeholders, both verbally and in writing.
4. Problem Solving:
Identifying business problems, analyzing data, and developing creative solutions.
5. Time management:
Prioritizing tasks, managing multiple projects and meeting deadlines.

6. collaboration and teamwork:

Building and maintaining relationships with team members, stakeholders and sponsors.

7. coaching and mentoring:

Guiding junior analysts, sharing knowledge, and developing team skills.

8. strategic thinking:

Aligning powerBI projects with organizational strategy, identifying opportunities, and driving business value.

By working on this powerBI project we can develop these managerial skills, which are essential for success in business intelligence, data analytics, and leadership roles.

Describe how you could improve your communication skills (in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.)

Improving communication skills :

Oral communication

1. Practice public speaking and presentations
2. Engage in debates and discussions
3. Record and analyze personal speech patterns.

Written communication :

1. Write regularly
2. Edit and proofread work
3. Learn concise and clear writing techniques.

written conversational Abilities :

1. Engage in diverse social interactions
2. Practice active listening
3. Ask open-ended questions.

Confidence levels:

1. Prepare thoroughly for presentation & conversations

- 2 Focus on strengths and accomplishments.
- 3, Visualize successful interactions.

Anxiety management :-

1. practice relaxation techniques
- 2, Reframe negative thoughts
- 3) Develop positive self-talk.

understanding others:-

1. practice empathy and active listening
- 2 ASK clarifying questions
- 3, paraphrase and summarize.

Getting understood :-

- 1, Articulate thoughts clearly.
- 2, use simple language
- 3, check for understanding

Extempore speech:-

1. practice thinking on feet
- 2, prepare for common questions
- 3, focus on key messages.

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Describe how could you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activities

Group discussions:

1. Active listening pay attention to other perspectives
2. Clear communication express thoughts concisely and respectfully
3. Open-mindedness consider diverse viewpoints
4. Preparation research topic beforehand.

Team participation:

1. Volunteer for tasks; take initiative and offer help
2. Collaborate: share ideas and expertise
3. Respectful feedback: Give and receive constructive feedback
4. Flexibility: Adapt to changing team needs

Contribution as a team member:

Contribution as a team member:

1. Identify strength: Leverage individual skills and expertise
2. Set goals: Align personal objective with team

3, Continuous learning: stay updated on relevant skills and knowledge

Leading a team :-

1. clear vision : communicate team objectives and expectations
2. Empower members: delegate tasks and encourage growth
3. supportive:- foster a positive inclusive team culture
4. self-awareness: Regularly update team members and stakeholders.
5. feedback Encourage and act on feedback from team members.

6, Adaptability : Respond to changing circumstances and priorities

7, Communications ; Regularly update team members and stakeholders.

By focusing on these areas, you can enhance your abilities in group discussion, team participation, contribution, and leadership becoming a more effective valuable team player and leader.

Describe the technological developments you have observed and relevant to the subject area of training (focus on digital technologies relevant to your job role)

I have observed significant technological developments

relevant to Training, including:

1. Learning management systems (Lms): Enhanced platforms for course delivery, tracking and analytics.

2. Artificial intelligence (Ai): Personalized learning, adaptive assessments, and intelligent tutoring systems.

3. Virtual and Augmented Reality (VR/AR): Immersive, interactive experience for simulated training.

4. microLearning : bite-sized just-in-time learning modules for increased engagement.

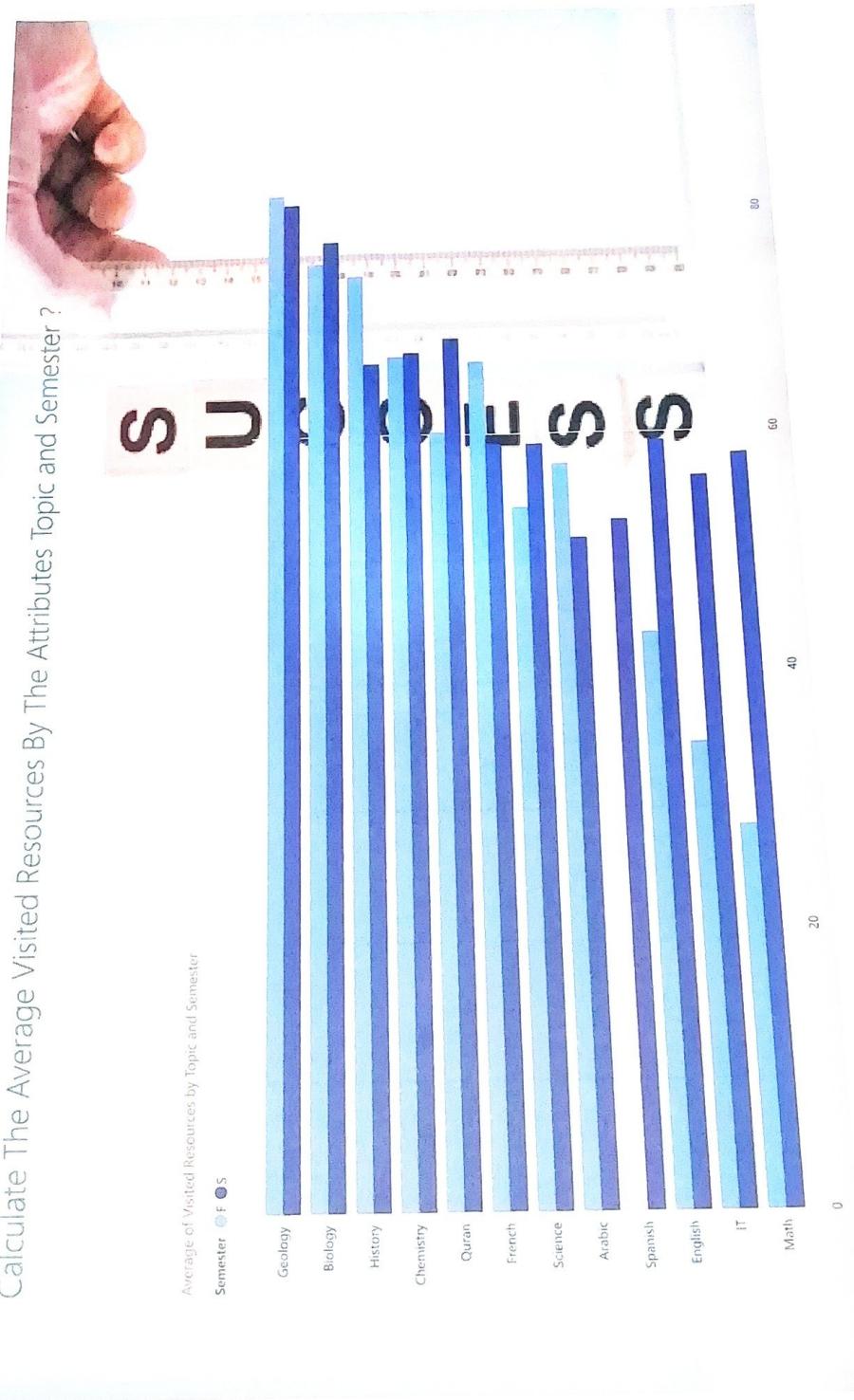
5. mobile learning (mLearning); Accessible, on-the-go training via mobile devices.

6. Gamification ; Engaging, interactive elements to enhance learning motivation.

7. Video-based learning; Increased uses of videos, webinars, and live streaming.

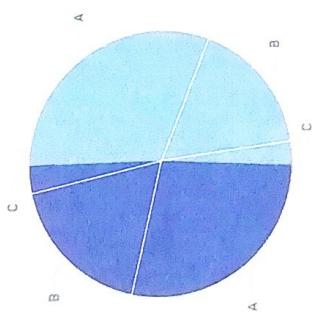
8. Social learning platforms : Knowledge sharing and community building.
9. Analytics and Data Visualization : Insights into learner behaviour, progress, and performance
10. Cloud-based Authoring Tools : Easy content creation, update and deployment
11. Natural language processing (NLP) : Enhanced chatbots, virtual assistants, and language learning.
12. Virtual classrooms : Online, interactive environments for remote training
13. 3D modeling and Simulation : Realistic, interactive simulations for complex skills training.
14. Wearable Technology : Innovative applications for hands-on, experiential learning.
15. Blockchain-based Credentialling :

Calculate The Average Visited Resources By The Attributes Topic and Semester ?



STUDENTS ACADEMIC PERFORMANCE

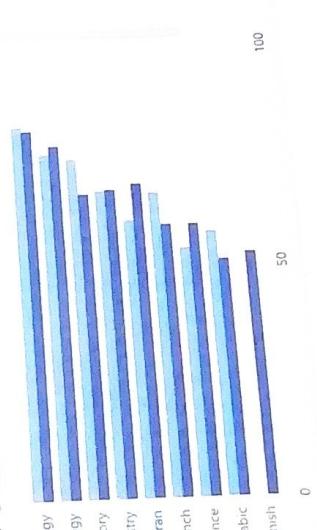
Count of Student Absence Days
by Semester and SectionID



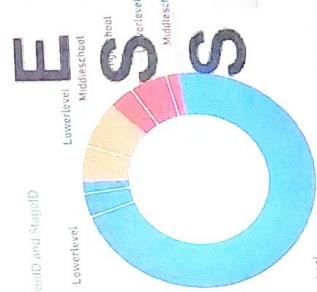
Count of Raised hands by GradeID and StageID
StageID ● Highschool ● Lowerlevel ● MiddleSchool



Average of Visited Resources by Topic and Semester
Semester ● F ● S



Min of Discussion by SectionID and StageID
StageID ● Highschool ● Lowerlevel ● MiddleSchool



Max of Raised hands by RelationID and ParentSchool Satisfaction
ParentSch ● Bad ● Good



STUDENTS ACADEMIC PERFORMANCE

