

STUDENT DROPOUT RISK ANALYSIS USING POWER BI

Presented by: Deepika Venkatesan



* Use This 5-Section Layout

Section Content

1. Title 🎓 Student Dropout Risk Analysis Using Power BI

2. KPI Cards 🧑 Total Students: 20
📍 Dropout Rate: 30%

3. Visual Section Upload dashboard screenshot

4. Insights Box💡 “100% failure in students with <60% attendance”
📌 “Low participation = higher dropout risk”

5. Recommendation Box🎯 “Monitor students <70% attendance”

🤝 “Provide early mentorship & engagement”

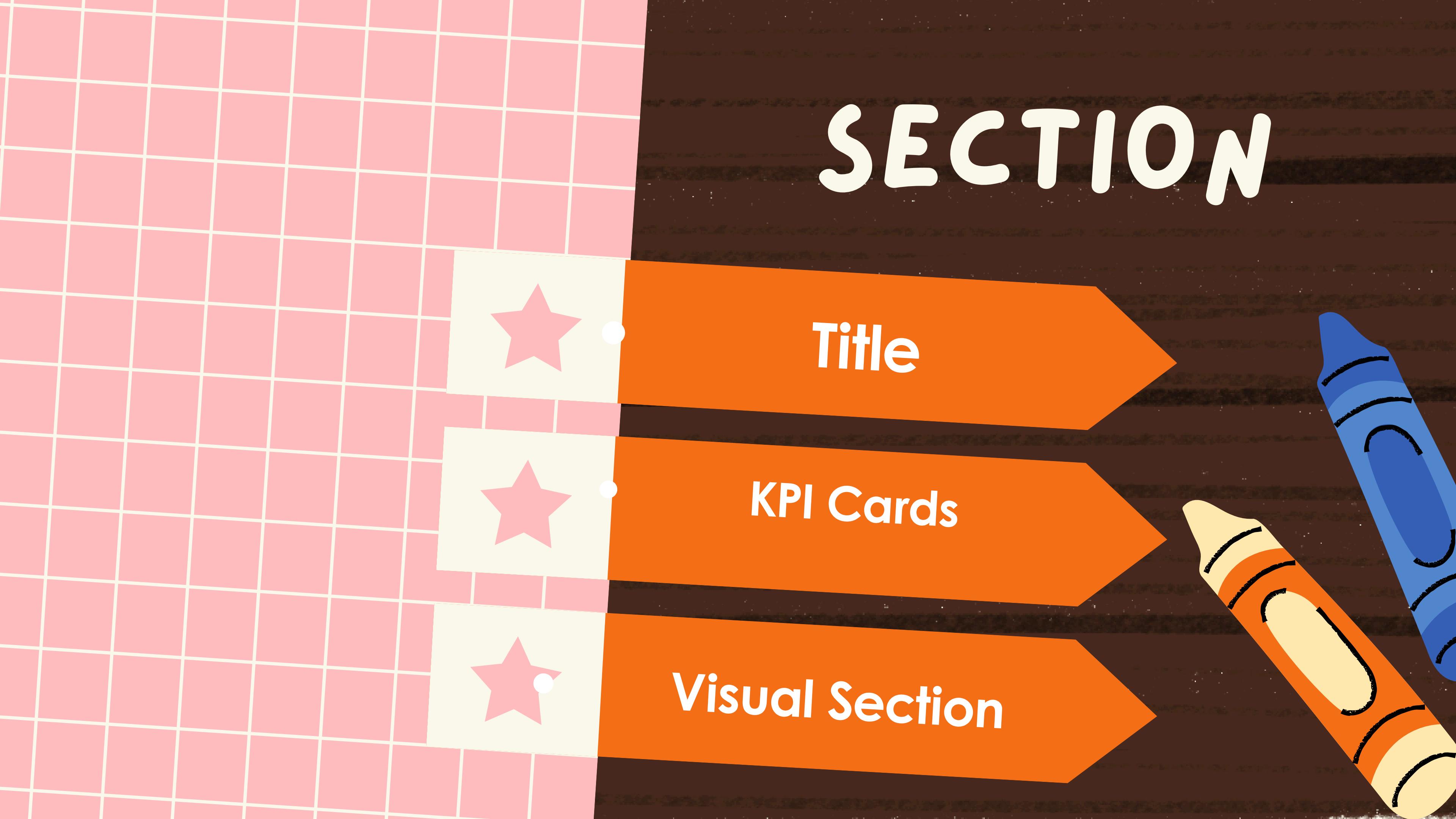


SECTION

Title

KPI Cards

Visual Section

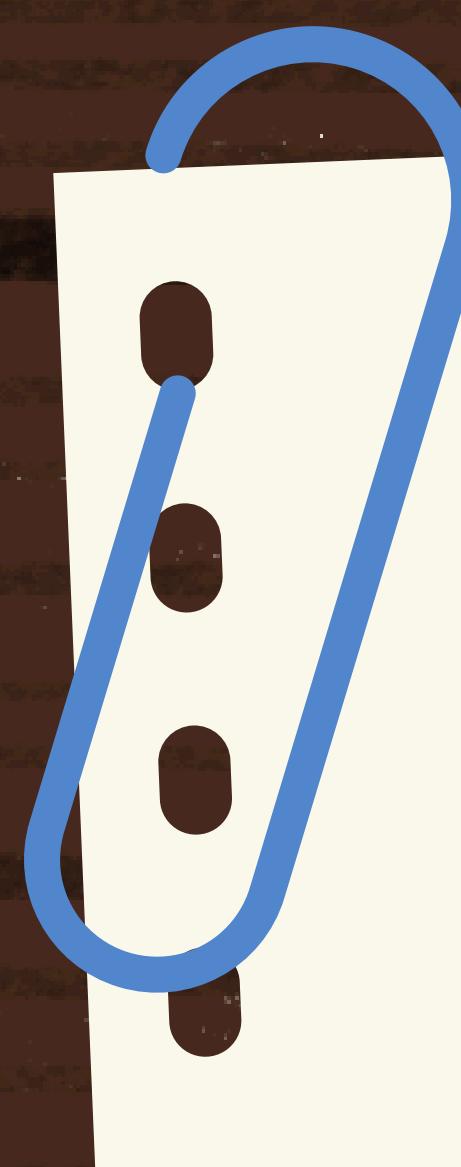


VISUALS CREATED:

- Attendance impact bar chart
- Participation pie chart
- Marks by gender chart
- KPI cards (total students & dropout %)
- Gender slicer



POWER OF EFFECTIVE STUDY HABITS



Many students struggle with performance due to inconsistent study patterns. This project aims to identify how study habits impact student outcomes like marks, attendance, and engagement.



COMPONENTS:

1. Title

- Allocate specific time slots for studying.
- Use techniques like the Pomodoro Technique.
- Breaks prevent burnout and maintain focus.

2. Problem Statement

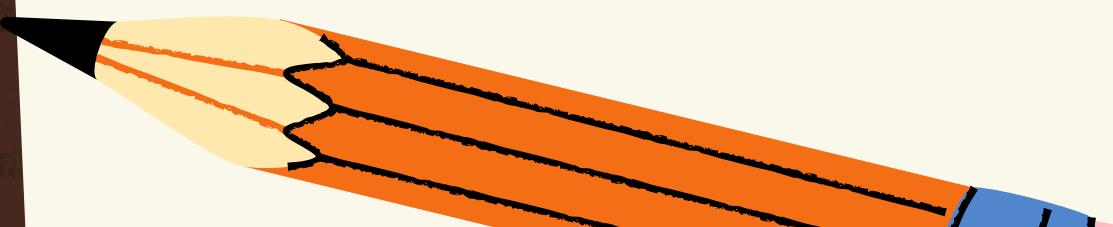
- Summarize content, take organized notes, and teach concepts to reinforce understanding.
- Active learning improves comprehension and retention.

3. Tools Used

- Excel – Data preparation, sorting, averages
- Power BI – Dashboard, KPIs, interactive visuals
- Canva – Infographic for portfolio
- Notion – Case study layout (description + screenshot)

Goal Setting

- Set clear study goals: short-term and long-term.





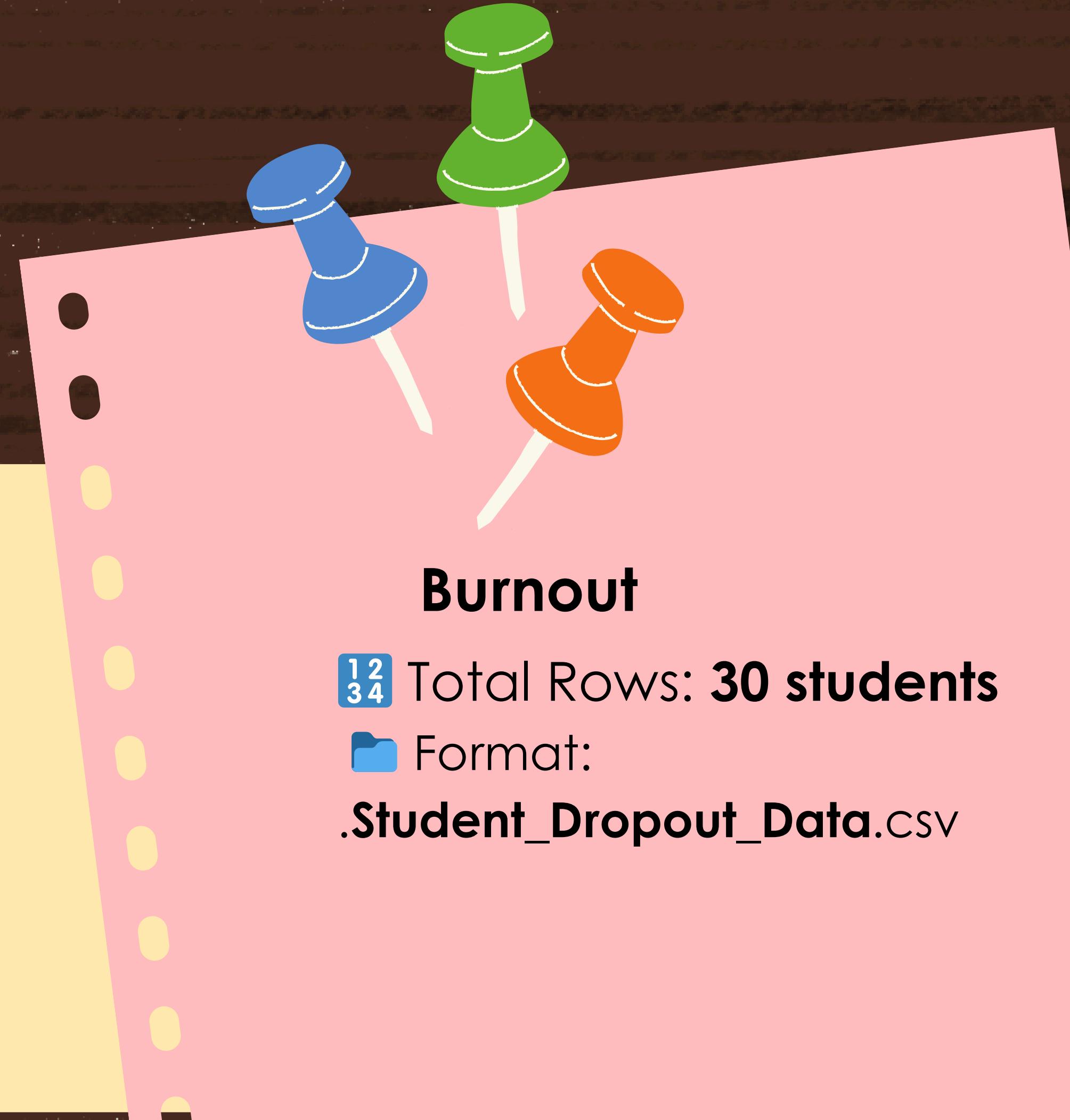
KEY INSIGHTS

- Students who study >10 hrs/week had 75%+ marks
- High distractions correlated with failure even at average attendance
- Students with <6 hrs study + low attendance had 100% failure
- Study discipline directly influenced final outcomes

DATASET SUMMARY

Common Study Challenges

- Student_ID**
Unique ID of student
- Study_Hours_per_Week**
How many hours they study weekly
- Attendance_%**
Percentage of class attendance
- Avg_Marks**
Overall average score in exams
- Distractions**
Level of distraction (High / Medium / Low)
- Final_Result**
Pass / Fail



Burnout

1234 Total Rows: **30 students**
Format:
.Student_Dropout_Data.csv



CONCLUSION

Early tracking of attendance and participation is essential to reduce dropout rates. Institutions can use dashboards like this to make proactive decisions.

STUDENT DROP OUT DATA

Count of Participation

High	Low	Me...
7	6	7

last final result

Pass

Sum of attendance %

1.5K

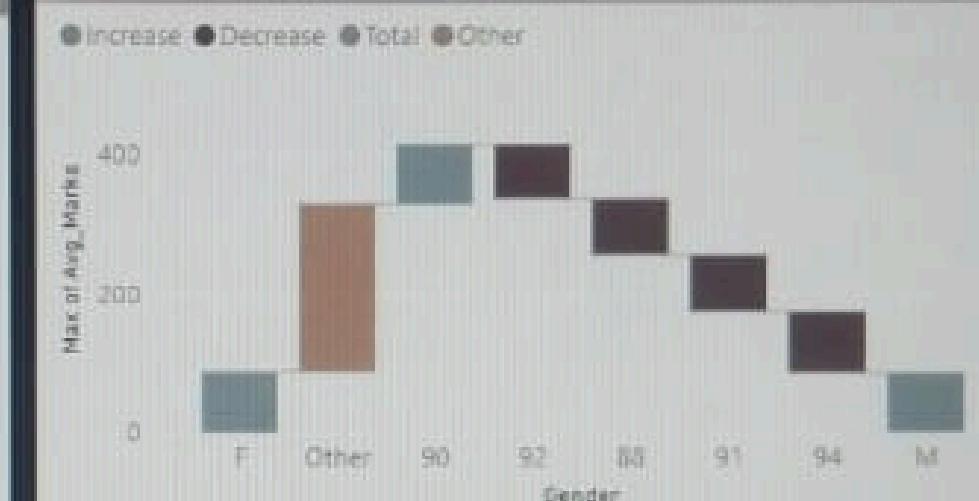
Max of Avg. Marks

High	Low	Med...
88	55	71

Count of Gender by Final_Result and Attendance_%

Pass	Fail				
	66	73	67	75	84
65	85	88	90	45	49
70	79	91	58		
72	82	92	94	61	63

Max of Avg. Marks by Gender and Attendance %

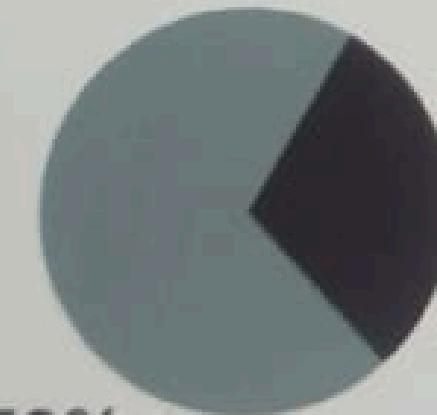


Count of Gender and Count of Final_Result



Count of Gender by Final_Result

Final_Result
● Pass
● Fail

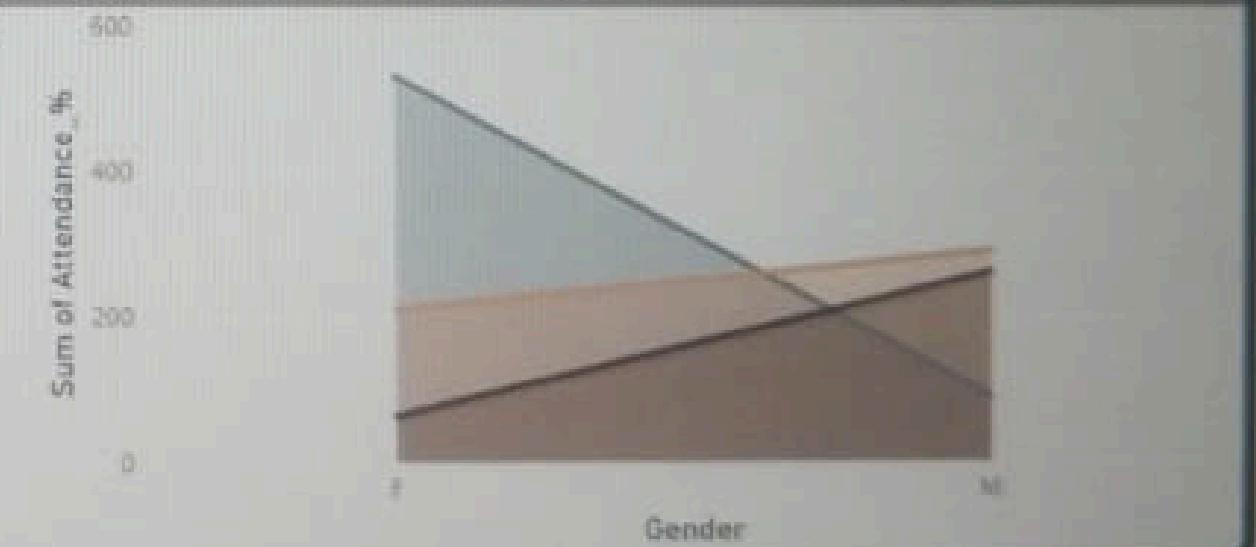


Fail
30%

Pass 70%

Sum of Attendance_% by Gender and Participation

Participation
● High
● Low
● Medium



Student Dropout Case Study Dashboard

THANK you!

