

Program: Datasience
Term and Year: 2025/2026
Course Title: Data Visualization

Final Project Groups:3-5 Deadline:2/12/2025

Data Visualization final project – Fill out form

Project Overview

Your final project is to build a complete, insightful, storytelling-driven Power BI dashboard using one of the datasets provided. The purpose is to demonstrate your ability to transform raw data into a story that delivers business insights, KPIs, and recommended actions.

Task Description

1. Dashboard Requirements

- Your dashboard must tell one clear, coherent story from start to finish.
- The story should focus on a business problem such as HR Attrition, Hospital KPIs, or Transportation Patterns.
- Use 10–15 meaningful visuals that support your narrative.
- You may add additional charts if they enhance your insights.

2. Report Requirements

You must make a written report (1-2 pages) that includes:

- A.** Story Explanation – What is the main story or problem your dashboard explains?
- B.** Chart Descriptions – Why you chose each visual and what insight it reveals.
- C.** Insights & Recommendations – Data-backed solutions the company should implement.

3. Deliverables

- Power BI (.pbix) dashboard
- Final written report (PDF or Word)

Grading Criteria

- Story clarity & structure: 25%
- Dashboard design & layout: 25%
- Insight & depth quality: 25%

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- Creativity: 10%
 - Report clarity: 15%

Project Dataset Options

Option 1 – HR Analytics: Employee Attrition

Example Qs:

- Which employee groups show the highest attrition, and what characteristics do they share?
- What workplace factors appear to be driving employees to leave?
- How does compensation relate to attrition?
- What actions can HR take to reduce attrition in the highest-risk groups?

Dataset: IBM HR Analytics Employee Attrition Dataset

Link: <https://www.kaggle.com/datasets/pavansubhasht/ibm-hr-analytics-attrition-dataset>

Option 2 – Healthcare: Hospital Patient Performance

Example Qs:

- How do hospitals compare in overall performance (safety, readmission, mortality, satisfaction)?
- Which hospital departments or services show inefficiencies or poor patient outcomes?
- How do patient experience ratings correlate with clinical outcomes?
- What improvement areas should hospital administrators prioritize to enhance quality of care?

Dataset: Hospital Patient Wait Times Dataset

Link: <https://data.cms.gov/provider-data/topics/hospitals>

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Option 3 – Uber / Transportation Rides Dashboard

Example Qs:

- When are the peak demand periods for Uber rides across the city?
- Which locations generate the highest ride volume, and how does demand vary by neighborhood?
- What external factors influence ride patterns across time?
- How can Uber optimize driver distribution to improve coverage and reduce wait times?

Dataset: Uber Pickups NYC Dataset

Link: <https://www.kaggle.com/datasets/fivethirtyeight/uber-pickups-in-new-york-city>