XIM UNIVERSITY ACM STUDENT CHAPTER

Data Visualization Challenge – Rulebook

1. EVENT DESCRIPTION

The Data Visualization Challenge is a 24-hour online analytical event designed to test participants' ability to explore real-world data, extract meaningful insights, and communicate those insights through effective visual storytelling.

Participants will be provided with a structured dataset and are expected to analyse the data, create insightful visualizations, and present a concise narrative explaining what they have addressed, discovered, and interpreted from the dataset. The focus of the event is on data understanding, visualization quality, and storytelling, rather than complex modelling or algorithms.

2. EVENT DETAILS

- **Event Name:** Data Visualization Challenge
- **Category:** Technical
- **Mode:** Online
- **Platforms:** Google Forms, Google Drive, Email, Google Meet
- **Event Date:** 17th January 2026
- **Duration:** 24 Hours

3. ELIGIBILITY & TEAM COMPOSITION

- **Eligibility:** Open to all students
- **Team Size:** Exactly 2 members per team
- **Cross-institution teams are allowed**
- Individual participation is **not permitted**

4. EVENT STRUCTURE

The event consists of **two rounds**.

ROUND 1: DATA ANALYSIS, VISUALIZATION & SUBMISSION

Objective

Participants must analyze the provided dataset and present **what key aspects of the data they have addressed**, supported by visualizations and a clear data-driven narrative.

Dataset

- The dataset will be released at the **start of the event** via email and Google Drive.

- Participants must strictly use the **provided dataset only**.

Submission Requirements

Each team must submit **one consolidated PDF file** containing the following sections:

1-What Is Being Addressed from the Dataset

A concise explanation of:

- The key aspect(s) of the dataset the team chose to analyze

- What the team is presenting or trying to highlight (e.g., trends, disparities, correlations, patterns)

This section should clearly state **the focus of the analysis**, not a generic problem statement.

2- Methodology

- Data cleaning steps

- Preprocessing and transformations applied

- Any assumptions made (if applicable)

3- Data Analysis & Visualizations

- **Minimum 3 and maximum 5 visualizations**

- Visualizations may include:

  o Bar charts

  o Line charts

- o   Heatmaps

- o   Maps

- o   Scatter plots

- o   Infographics

Each visualization must:

- Be clearly labeled

- Support the narrative

- Be explained briefly

4-Data Story / Insights (Maximum 250 Words)

- A clear, well-structured narrative explaining:

  - o   Key observations

  - o   Insights derived from the visualizations

  - o   Final conclusions or implications

All insights must be **strictly data-backed**.

5- Tools Used

Participants may use any tools, including but not limited to:

- Excel

- Tableau

- Power BI

- Python / R

- Google Sheets

6-Code Submission (Optional)

Code must be shared through **any one of the following**:

- **Google Colab notebook link**

- **Jupyter Notebook (.ipynb)**

- **GitHub repository link**

The link must be:

- Accessible (view permission enabled)

- Clearly referenced inside the PDF

Time Limit

- **24 hours from dataset release**

- Late submissions will result in **automatic disqualification**

ROUND 2: FINAL PRESENTATION & DEFENSE

Shortlisting

- The **Top 10 teams** will be shortlisted based on Round 1 submissions.

- Shortlisted teams will be informed via email.

Presentation Details

- **Mode:** Google Meet

- **Duration:** 5 minutes presentation + 2–3 minutes Q&A

Presentation Structure

1- **Introduction (1 minute)**

- What was addressed from the dataset

- Why this focus was chosen

2- **Key Visualizations & Analysis (3 minutes)**

- Explanation of selected visualizations

- Analytical reasoning and methodology

3- **Conclusion (1 minute)**

- Final insights and implications

4- **Q&A Session (2–3 minutes)**

5. SCORING & EVALUATION

Total Marks: 30

Component	Marks
Visualization & Analysis (Round 1)	25
Presentation & Q&A (Round 2)	25
Total	**30**

6. JUDGING CRITERIA

Round 1 Evaluation

- **Visualization (30%)**
- **Analytical Depth (20%)**
- **Storytelling Impact (50%)**

Round 2 Evaluation

- Presentation clarity
- Confidence and explanation
- Originality and creativity
- Ability to justify insights during Q&A

Final Decision

- Winners determined by **highest combined score**
- Judges' decisions are final and binding

7. AWARDS & RECOGNITION

- **Winner:** ₹300
- **Runner-Up:** ₹200

Additional Benefits:

- Winners featured on ACM XIM University website & social media post.
- **E-Certificates** for all valid submissions for Participants

8. GENERAL RULES & CODE OF CONDUCT

- All submissions must be **original**

- Plagiarism or misrepresentation of data will lead to disqualification

- Open-source resources may be used with proper citation

- Participants must maintain professional conduct throughout the event

9. REGISTRATION & COMMUNICATION

- Registration via **Google Forms**

- Registered teams will receive:

  o   Dataset

  o   Rules & instructions

  o   Submission folder link

- Drive link remains active for **24 hours only**

- Top 10 teams will be invited for Round 2 via email

ORGANIZING BODY
XIM University ACM Student Chapter

---------   **Best of Luck** ---------