

**ISTE 782 Final Project****Due Date: Wednesday, December 18, at 5:00 PM****Project Overview**

The goal of this project is to collaborate in groups of 2–3 students to explore, visualize, and analyze a dataset containing country information. The dataset to be used is available on MyCourses under **Data → country\_information(1).csv**.

**Deliverables**

1. **[60%] Presentation**
2. **[40%] Paper**

**Presentation Guidelines**

Each team will present their project, emphasizing meaningful insights gained from the dataset and showcasing their proficiency with data visualization tools.

- **Format:** Video presentation (YouTube link or Zoom recording).
- **Duration:** Maximum of 15 minutes.
- **Objective:**
  - Conduct and present a comprehensive data exploration of the dataset.
  - Showcase the visualizations you created.
  - Discuss your analysis and the data visualization tools you used.

**Paper Guidelines**

The final paper should clearly summarize your project work, insights, and findings. It must be concise and professional, adhering strictly to the IEEE format guidelines.

- **Format:** 2-page maximum in IEEE two-column format. Use the IEEE manuscript template, available at: [IEEE Templates](#).
- **Content Requirements:**
  - **Exploratory Analysis:**
    - Describe the dataset and its potential use cases.
    - Explain any patterns or trends observed in the data. You may incorporate additional datasets or cite external resources for deeper insights in your essay that helps support the analysis.
  - **Visualizations:**
    - Include at least **three visualizations**:
      - **Two visualizations** must be created using R or Python.
      - **One visualization** can be made using other tools covered in class, such as QGIS or Tableau.
    - Discuss the tools you selected, why you chose them, and how they were useful in your analysis.