Data Analytics & Visualization (CS/IT 312)
Mini Project Submission & Feedback Form

Student Information

- **Student Name:**
- **Student Roll No.:**
- **Mini Project Title:**
- **Are you working with anyone else on the same project (data)?** Yes / No
  (If yes, mention their name and roll number.)

Mini Project Details

1. **Type of Data Considered:**
   (e.g., 1D Signal, Sound, 2D Image, 3D Video, Text Data, Tabular Data, etc. Specify clearly.)
2. **Number of Observations / Subjects:**
   - Total number of samples:
   - Categories (e.g., how many samples per class, if applicable):
3. **Project Type:**
   (e.g., Classification, Regression, Clustering, Time Series Forecasting, etc. Specify clearly.)
4. **Data Source:**
   - URL (if downloaded online):
   - If it's a large dataset, write "**Large dataset**" and submit it later via pen drive.
   - Otherwise, upload your dataset in a ZIP format (name the ZIP file as your **RollNo_Data**).
5. **Data Representation Before Feature Extraction:**
   - How did you represent the raw data? (e.g., tables, time-series plots, images)
   - How many graphs did you use? List their names and explain the reasons for using each.
6. **Feature Extraction / Creation Details:**
   - Total number of features extracted:
   - Names of features and their formulas (if possible), and brief explanation of their use.
7. **Data Representation After Feature Extraction:**
   - Types and number of graphs used to represent extracted features:
   - Reason for choosing each graph:

8. **Feature Selection Techniques Used:**
    - Methods used (e.g., Filter, Wrapper, Embedded, or any discussed in class/PPTs):
    - Number of features selected and justification:
9. **Feature Transformation Techniques Used:**
    - Describe the transformation methods applied (e.g., normalization, standardization, log scaling) and their purpose.
10. **Feature Reduction Techniques Used:**
    - Mention any dimensionality reduction techniques used (e.g., PCA, LDA, t-SNE) and provide a clear explanation.
11. **Hypothesis Testing Methods Used:**
    - Mention any statistical tests used (e.g., t-test, ANOVA, Chi-square, etc. excluding final model analysis), with brief purpose.
12. **Models Employed:**
    - List all models used (e.g., Decision Tree, SVM, Random Forest, Linear Regression, etc.)
13. **Best Model Selection Criteria (Beyond Accuracy):**
    - Describe how you identified the best model using other metrics
14. **Document & Code Upload:**
    - Upload your project document and code ZIP file at: ☞https://docs.google.com/forms/d/e/1FAIpQLScqPdTjm8tF9Si6PQDwl73ybfeR_YCOPlb_3YH_ky9xYh_XlA/viewform?usp=header
    - The Word document should include all details above along with a workflow diagram.
    - The ZIP file (named RollNo_ALL) should contain your code and report (excluding the dataset).

Optional Course Feedback

1. **What did you learn from the Data Analytics & Visualization course?**
   Describe the key concepts, skills, or tools you learned through lectures, labs, and your mini project.
2. **Was this course helpful in learning new concepts or improving your problem-solving skills?**
   Explain how the course contributed to your academic or project-based development.
3. **Suggestions for Improvement (Excluding Internet Issues):**
   Mention ways to enhance course delivery, content, lab experience, or resources.
4. **Difficult Topics That Need More Explanation:**
   List specific topics that were challenging and need more focus or clarification.

5. **Personal Feedback on the Subject or Faculty:**
   Share your experience, suggestions, or comments about the teaching and overall course.