

1. Ensure you have the following libraries installed:

Use the following commands to install the required libraries:

- a. `pip install pandas scikit-learn matplotlib joblib imbalanced-learn tensorflow==2.11.0`
 - b. `pip install tensorflow-cpu==2.11.0 --force-reinstall`
2. Open Main Code File.ipynb in a suitable environment (e.g., Google Colab or Jupyter Notebook).
 3. Download the `cleaned_data.csv` file and note its directory path.
 4. If you are not using Google Drive, skip the following steps in the code:
 - a. Section 2: For importing from Google Drive
 - b. Section 3: Load and Merge Datasets
 5. Update the path to your `cleaned_data.csv`:
 - a. In Section 4 (Input your file dir that you stored the `cleaned_data`), provide the correct directory path to your `cleaned_data.csv`.
 - b. Uncomment the relevant code to load the file.
 6. Run the code sequentially:
 - a. Section 1: Importing Libraries
 - b. Section 4: Input your file dir that you stored the `cleaned_data`
 - c. Section 5: Preparing Data for Modeling
 - d. Section 6: Data Balancing
 - e. Section 7: Modeling using K-Nearest Neighbours, Logistic Regression, and Random Forest Classifier
 - f. Section 8: Deep Learning Model (Feedforward Neural Network - FNN)
 - g. Section 9: Plot Precision-Recall Curves for All Models
 - h. Section 10: Saving Final Trained Models
 - i. (Optional: You can comment out or delete the part that saves the model to a directory if not needed).

- i. Section 11: Evaluating on Final Trained Model with 20% of Test Data (unseen during previous training)
- 7. Trained Models are available in the Models folder.
 - a. To import and use the trained models, follow the instructions in the Model.py file inside the Models folder.