Replication Instructions

Follow these steps to replicate the reported results:

1. **Set up your environment**

   o **Install dependencies listed in requirements.pdf**

   o **Ensure Python 3.7+ is being used**

2. **Prepare the dataset**

   o **Ensure dataset is in the relative location**

C:/Users/chibu/Documents/ISE-solution-main/Coursework/datasets/{project}.csv

   o **Required columns: 'Title', 'Body', 'class'**

3. **Run the full script**

   o **All preprocessing, model training, and evaluation steps are handled in the code.**

   o **You do not need to change the core logic unless using a different dataset.**

4. **View results**

   o **After execution, check the results_dir:**

swift

C:/Users/chibu/Documents/ISE-solution-main/Coursework/trial2/results/

   o **Two key output files:**

      ▪ **{project}_SMOTE_HybridModel_Metrics.csv: Contains metrics across all repeats**

      ▪ **{project}_SMOTE_HybridModel_Final_Metrics.csv: Contains average metrics**