Manual

1.1 Introduction

Purpose: Briefly explain the tool’s goal (e.g., "A tool for classifying GitHub issues into bug/non-bug reports using ensemble learning").

Target Audience: Developers, QA engineers, or researchers working on bug triaging.

1.2 Installation

Step 1: Clone the repository

git clone https://github.com/a-n-shreyas/ISE-Coursework.git

cd ISE-Coursework

Step 2: Install dependencies

pip install -r requirements.txt

Step 3: Download pretrained models (if applicable)

wget [link_to_pretrained_models]

1.3 Usage

Input Format:

Accepts CSV files with GitHub issue titles and bodies.

Example input file:

title,body

"CUDA error","The model crashes with CUDA out-of-memory..."

Command-Line Execution:

python classify.py --input <path_to_csv> --output <path_to_results>

Output:

A CSV file with columns: title, body, predicted_label, confidence_score.

1.4 Example Workflow

Sample Input:

python classify.py --input data/sample_issues.csv --output results/predictions.csv

Sample Output:

title,body,predicted_label,confidence_score

"CUDA error","...",bug,0.87

1.5 Troubleshooting

Common Errors:

ModuleNotFoundError: Ensure dependencies are installed (pip install -r requirements.txt).

FileNotFoundError: Verify input file paths.