# Setup Guide: Text-Based Misinformation Detector

# **Before You Start**

**System Requirements**: This prototype can be set up on Windows, Mac, or Linux systems.

**Required Software Installations**: You will need Python (version 3.6 or higher) and pip (Python package installer).

**Estimated Setup Time**: Approximately 30-60 minutes, depending on your familiarity with software installation.

# Step 1: Install Python

## **Download Python:**

Go to the official Python website.

Choose the version suitable for your operating system (Windows, Mac, or Linux) and click on the download link.

# **Install Python**:

**Windows**: Run the downloaded installer and ensure you check the box that says "Add Python to PATH" before clicking "Install Now".

**Mac**: Open the downloaded .pkg file and follow the installation instructions.

**Linux**: Open a terminal and run the following command:

```
sudo apt-get install python3
```

## **Verify Installation**:

Open a terminal (Command Prompt on Windows, Terminal on Mac/Linux).

Type the following command and press Enter:

```
python --version
```

You should see the installed Python Version. It not, check your installation steps.

## **Common Troubleshooting:**

If you receive an error that Python is not recognized, ensure that it is added to your system PATH during installation.

# Step 2: Download Project Files

## **Download the Project Files:**

You can download the project files from the provided source (e.g., a GitHub repository or a shared link).

## **Extract the Project Files:**

If the files are in a compressed format (like .zip), right-click on the file and select "Extract All" (Windows) or double-click to unzip (Mac).

## **Understanding the File Structure**:

The main folder will contain the following files:

```
misinformation_detector.py : The main script to run the detector.
text_processor.py : Handles text input and preprocessing.
model_trainer.py : Trains the AI model on data.
credibility_scorer.py : Scores the credibility of the text.
gui_interface.py : Provides a graphical user interface.
config.yaml : Configuration settings for the application.
```

# **Important Files Overview:**

Familiarize yourself with these files as they will be essential for running and configuring the application.

# Step 3: Install Dependencies

# **Open a Terminal**:

Navigate to the folder where you extracted the project files.

#### **Kun the Kequirements Installation:**

Execute the following command to install the necessary dependencies:

```
pip install -r requirements.txt
```

If there is no requirements.txt, you may need to install dependencies manually based on the imports in the Python files.

## **What Each Major Dependency Does:**

Libraries like <code>nltk</code>, <code>scikit-learn</code>, and <code>pandas</code> are commonly used for natural language processing and data handling.

# **Troubleshooting Installation Issues:**

If you encounter errors during installation, ensure you have an active internet connection and that pip is updated:

```
pip install --upgrade pip
```

# Step 4: First Run

# **How to Start the Application:**

In the terminal, run the following command:

```
python misinformation_detector.py
```

# What to Expect on First Launch:

The application should open a GUI window. You may see a welcome message and options to input text for analysis.

### **Initial Configuration if Needed:**

If prompted, you may need to configure settings in the <code>config.yaml</code> file. Open it in a text editor and adjust parameters as necessary.

#### **Using the Included Test Examples:**

The application may come with sample text files. Load these to see how the detector works.

# **Loading Your Own Data (if applicable):**

You can input your own text directly into the GUI or load from a file, depending on the interface options.

# **Verifying Everything Works Correctly:**

Check the output for credibility scores and ensure the application responds as expected.

# Troubleshooting

### **Common Error Messages and Solutions:**

If you see "Module not found", ensure all dependencies are installed correctly.

#### **Performance Issues and Fixes:**

If the application runs slowly, consider closing other applications or checking your system resources.

#### When to Seek Technical Help:

If you encounter persistent issues, consider reaching out for help.

# **Getting Help**

#### Log File Locations:

Check the project folder for any log files that may provide error details.

### Information to Include When Asking for Help:

Provide details about your operating system, Python version, and any error messages you received.

#### **Next Steps if Setup Fails:**

Review the troubleshooting section, and if issues persist, consider seeking help from a

By following these steps, you should be able to successfully set up and test the Text-Based Misinformation Detector prototype. Good luck!