

Grammar Scorer

A project by ****Ashish****

Overview

****Grammar Scorer**** is a Python-based tool that listens to audio files, converts the speech into text, and then corrects the grammar of that text. It helps in analyzing spoken English and improving writing quality based on speech inputs.

This can be useful for:

- Students practicing spoken English
- Content creators checking grammar from voice notes
- Teachers evaluating pronunciation and sentence structure

🛠️ Features

- ✅ Converts speech to text using Google's Speech Recognition API
- ✅ Checks and corrects grammar with LanguageTool
- ✅ Works on multiple audio files (batch processing)
- ✅ Outputs results in a clean `.csv` file
- ✅ Shows warnings for unreadable or noisy audio

🔍 How It Works

1. Audio files are stored in `audios/train/` and `audios/test/` folders.
2. The program reads each `.wav` file using the `speech_recognition` library.
3. It converts the speech to text via ****Google Web Speech API****.
4. The text is passed to ****LanguageTool****, which checks grammar issues.
5. Both the original and corrected text are saved in a CSV file.

📦 Dependencies

Make sure you have the following installed:

```
```bash
```

```
pip install SpeechRecognition
```

```
pip install language-tool-python
```

```
pip install pandas
```