

# HOW TO RUN THIS PROJECT LOCALLY

## 1. System Requirements

- Python 3.9+
- Pip (Python package manager)
- Internet connection (only for initial NLTK downloads)

## 2. Download or Clone the Project

Open your terminal (or Command Prompt) and run:

```
git clone <your-repository-url>
```

```
cd <project-folder>
```

If downloading as ZIP:

- Extract the folder
- Open terminal inside the project directory

## 3. Install Required Python Libraries

Run:

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

This installs:

- Streamlit
- LanguageTool
- NLTK
- VADER sentiment
- Other required NLP packages

## 4. Download NLTK Tokenizers (Important)

Your project uses NLTK word & sentence tokenizers.

Run this command:

```
python -c "import nltk; nltk.download('punkt');  
nltk.download('punkt_tab')"
```

If this fails, run manually inside Python:

```
import nltk  
nltk.download('punkt')  
nltk.download('punkt_tab')
```

## 5. Start the Application

To launch the Streamlit interface:

```
--streamlit run app.py
```

After a few seconds, Streamlit will open automatically.

If not, open your browser and visit:

```
--http://localhost:8501
```

## 6. Using the Application

1. Paste your transcript into the text area
2. (Optional) Enter speech duration in seconds
3. Click Score

#### 4. View:

- Overall score (0–100)
- Per-criterion score breakdown
- Detected keywords
- Grammar, clarity, vocabulary results
- Summary feedback

## 7. Troubleshooting

### ◆ **NLTK “Resource Not Found” Error**

If you see something like:

LookupError: Resource punkt\_tab not found

Run:

```
import nltk  
nltk.download('punkt')  
nltk.download('punkt_tab')
```

### ◆ **LanguageTool Errors**

If grammar checking fails, try reinstalling:

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

### ◆ **Streamlit Won’t Launch**

Make sure you are inside the correct folder:

```
cd <project-folder>
```

```
streamlit run app.py
```

#### ◆ Keyword or Scoring Issues

Ensure:

- scoring/scorer.py is updated
- rubric.json is inside the scoring/ folder

## 8. Folder Structure Overview

Your project should look like:

```
project/
```

```
|
```

```
├─ app.py
```

```
├─ requirements.txt
```

```
├─ README.md
```

```
|
```

```
└─ scoring/
```

```
    ├─ scorer.py
```

```
    ├─ preprocess.py
```

```
    ├─ grammar.py
```

```
    ├─ vocabulary.py
```

```
    ├─ sentiment.py
```

```
    └─ semantic.py (optional if unused)
```

```
└─ rubric.json
```

```
-----packages.txt – java requirement for streamlit deployment
```