Installation Guide: AI Resume Analyzer (Python + Flask + RoBERTa)

# Project Overview

Tech Stack:

- Python 3.10+

- Flask

- SentenceTransformers (RoBERTa)

- Tailwind CSS

- PyMuPDF

- Transformers (for NER)

# Prerequisites

- Python 3.10+ installed: https://www.python.org/downloads/

- pip should be working

- (Optional) Use a virtual environment for isolation

# Installation Steps

1. Download the Project:

- Unzip the project to your working directory.

2. Open Terminal / Command Prompt:

cd Resume\_Analyzer

(Optional) Create virtual environment:

python -m venv venv

venv\Scripts\activate (Windows)

source venv/bin/activate (Linux/macOS)

3. Install Required Libraries:

pip install -r requirements.txt

4. Download NLTK Stopwords (once):

python

>>> import nltk

>>> nltk.download('stopwords')

>>> exit()

5. Run the Flask App:

python app.py

Open browser at: http://127.0.0.1:5000/

# Project Pages

- / → Main Resume Match Page

- /multi-jd → Compare resume with 3 job descriptions

- /result → See match score, skills, suggestions

# Supported Formats

- Resume: PDF only

- JD: Text box input (paste from job sites)

# Model Details

- RoBERTa Model: stsb-roberta-large

- NER Model: dslim/bert-base-NER

- Both models loaded from HuggingFace Transformers

# Tips

- Resume should be a clean, readable PDF

- JD should be a full copy (from LinkedIn, etc.)

- Best run using Python 3.10

# Need Help?

For help or questions:

- Comment below the post

- Email: support@projectworlds.in

- Visit: https://projectworlds.in