INTERNSHIP PROJECT PHASE - MINI PROJECT

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PROJECT-4 :AI-Powered Resume Ranker

Objective: Rank resumes for a job profile using NLP techniques.

Tools: Python, SpaCy, Sklearn, Flask

Mini-Guide:

Extract text from PDF resumes

Preprocess text using SpaCy

Vectorize using TF-IDF

Create a scoring algorithm based on job description keywords

Rank candidates

Build a web UI to upload resumes and show ranks

Add download option for HR reports

Deliverables: Flask app, scoring algorithm, UI, sample outputs

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Resume Ranker</title>
 <link rel="stylesheet" href="/static/style.css">
 <style>

  body {
```

```css
  font-family: 'Arial', sans-serif;

  background-color: #f0f4f8; /* Light blue-gray background */

  display: flex;

  justify-content: center;

  align-items: center;

  flex-direction: column;

  padding: 40px;

  margin: 0;

}


h1 {

  text-align: center;

  color: #2c3e50; /* Dark blue-gray */

  font-size: 2.5em; /* Larger font size */

  margin-bottom: 20px;

}


h2 {

  text-align: center;

  color: #2980b9; /* Bright blue */

  font-size: 2em; /* Larger font size */

  margin-top: 30px;

}


form {

  margin-bottom: 50px;

  text-align: center;

  background-color: #ffffff; /* White background for form */

  padding: 30px;
```

```css
    border-radius: 20px; /* More rounded corners */

    box-shadow: 0 4px 20px rgba(0, 0, 0, 0.1);

    transition: box-shadow 0.3s ease;

}


form:hover {

    box-shadow: 0 8px 30px rgba(0, 0, 0, 0.2); /* Shadow on hover */

}


input[type="file"], textarea, button {

    margin: 10px;

    padding: 12px;

    border-radius: 8px; /* More rounded corners */

    border: 1px solid #ced4da; /* Light gray border */

    width: calc(100% - 24px); /* Full width minus padding */

    font-size: 1em; /* Consistent font size */

}


input[type="file"] {

    background-color: #e9ecef; /* Light gray input background */

    color: #495057; /* Dark gray text */

}


textarea {

    background-color: #e9ecef; /* Light gray input background */

    color: #495057; /* Dark gray text */

    height: 120px; /* Slightly taller */

}
```

```css
    button {
      background-color: #3498db; /* Bright blue */

      color: white; /* White text */

      border: none;

      cursor: pointer;

      font-size: 1.1em; /* Slightly larger font size */

      transition: background-color 0.3s ease;

    }


    button:hover {

      background-color: #2980b9; /* Darker blue on hover */

    }


    ol {

      background: #ffffff; /* White background for list */

      padding: 20px;

      border-radius: 10px;

      box-shadow: 0 0 10px rgba(0,0,0,0.1);

      width: 100%; /* Full width */

      max-width: 600px; /* Max width for the list */

    }


    li {

      margin: 10px 0;

      color: #34495e; /* Dark gray text for list items */

      font-size: 1.1em; /* Slightly larger font size */

    }
  </style>
</head>
```

```html
<body>
  <h1>AI-Powered Resume Ranker</h1>
  <form method="post" enctype="multipart/form-data">
    <input type="file" name="resumes" multiple required>
    <br><br>
    <textarea name="job_description" placeholder="Enter Job Description" required></textarea>
    <br>
    <button type="submit">Upload & Rank Resumes</button>
  </form>
  {% if resumes %}
    <h2>Ranked Resumes</h2>
    <ol>
      {% for filename, score in resumes %}
        <li>{{ filename }} - Score: {{ '%.2f' | format(score) }}</li>
      {% endfor %}
    </ol>
  {% endif %}
</body>
</html>
```

PYTHON CODE(FLASK):

```python
from flask import Flask, render_template, request

import os

from ranker import process_and_rank


app = Flask(__name__)

UPLOAD_FOLDER = "uploads"

app.config['UPLOAD_FOLDER'] = UPLOAD_FOLDER
```

```python
@app.route("/", methods=["GET", "POST"])

def index():

    if request.method == "POST":

        files = request.files.getlist("resumes")

        for file in files:

            file.save(os.path.join(app.config['UPLOAD_FOLDER'], file.filename))

        ranked_resumes = process_and_rank()

        return render_template("index.html", resumes=ranked_resumes)

    return render_template("index.html", resumes=None)

@app.route('/rank', methods=['POST'])

def rank():

    # Get uploaded resumes

    resumes = request.files.getlist('resumes')

    job_desc = request.form['job_description']



    # (Your NLP and ranking logic will go here)

    # For now, just return confirmation

    return f"<h2>{len(resumes)} resume(s) uploaded.</h2><p>Job Description received: {job_desc[:100]}...</p>"


if __name__ == "__main__":

    if not os.path.exists(UPLOAD_FOLDER):

        os.makedirs(UPLOAD_FOLDER)

    app.run(debug=True)


PYTHON CODE (SPACY):

import os

import pdfplumber

import spacy
```

```python
from sklearn.feature_extraction.text import TfidfVectorizer

from sklearn.metrics.pairwise import cosine_similarity


UPLOAD_FOLDER = "uploads"

nlp = spacy.load("en_core_web_sm")


def extract_text_from_pdf(pdf_path):

    with pdfplumber.open(pdf_path) as pdf:

        return " ".join([page.extract_text() or "" for page in pdf.pages])


def preprocess(text):

    doc = nlp(text.lower())

    return " ".join([token.lemma_ for token in doc if not token.is_stop and not
token.is_punct])


def process_and_rank():

    job_desc = open("job_description.txt").read()

    job_desc_clean = preprocess(job_desc)


    resume_texts = []

    filenames = []


    for filename in os.listdir(UPLOAD_FOLDER):

        if filename.endswith(".pdf"):

            text = extract_text_from_pdf(os.path.join(UPLOAD_FOLDER, filename))

            cleaned = preprocess(text)

            resume_texts.append(cleaned)

            filenames.append(filename)


    documents = [job_desc_clean] + resume_texts
```

```python
tfidf = TfidfVectorizer(ngram_range=(1,2), min_df=1, max_features=5000)

vectors = tfidf.fit_transform(documents)
scores = cosine_similarity(vectors[0:1], vectors[1:]).flatten()

ranked = sorted(zip(filenames, scores), key=lambda x: x[1], reverse=True)
max_score = max(score for _, score in ranked) or 1
ranked = [(name, score / max_score) for name, score in ranked]

    # Return only the top 3 resumes
return ranked[:3]
```

OUTPUT:

```
PS C:\Users\krlah\Downloads\AI_Powered_Resume_Ranker> python -m venv venv
>> venv\Scripts\activate
>>
(venv) PS C:\Users\krlah\Downloads\AI_Powered_Resume_Ranker> pip install flask spacy scikit-learn PyPDF2
Requirement already satisfied: flask in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (3.1.1)
Requirement already satisfied: spacy in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (3.5.3)
Requirement already satisfied: scikit-learn in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (1.6.1)
Collecting PyPDF2
  Using cached pypdf2-3.0.1-py3-none-any.whl.metadata (6.8 kB)
Requirement already satisfied: blinker>=1.9.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from flask) (1.9.0)
Requirement already satisfied: click>=8.1.3 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from flask) (8.1.8)
Requirement already satisfied: importlib-metadata>=3.6.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from flask) (8.7.0)
Requirement already satisfied: itsdangerous>=2.2.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from flask) (2.2.0)
Requirement already satisfied: jinja2>=3.1.2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from flask) (3.1.6)
Requirement already satisfied: markupsafe>=2.1.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from flask) (3.0.2)
Requirement already satisfied: werkzeug>=3.1.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from flask) (3.1.3)
Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.11 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (3.0.12)
Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (1.0.5)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (1.0.12)
Requirement already satisfied: cymem<2.1.0,>=2.0.2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (2.0.11)
Requirement already satisfied: preshed<3.1.0,>=3.0.2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (3.0.9)
Requirement already satisfied: thinc<8.2.0,>=8.1.8 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (8.1.12)
Requirement already satisfied: wasabi<1.2.0,>=0.9.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (1.1.3)
Requirement already satisfied: srsly<3.0.0,>=2.4.3 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (2.5.1)
Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (2.0.10)
Requirement already satisfied: typer<0.8.0,>=0.3.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (0.7.0)
Requirement already satisfied: pathy>=0.10.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (0.11.0)
Requirement already satisfied: smart-open<7.0.0,>=5.2.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (6.4.0)
Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (4.67.1)
```

```
Requirement already satisfied: numpy>=1.15.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (1.23.5)
Requirement already satisfied: requests<3.0.0,>=2.13.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (2.32.3)
Requirement already satisfied: pydantic!=1.8,!=1.8.1,<1.11.0,>=1.7.4 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (1
.10.22)
Requirement already satisfied: setuptools in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (80.7.1)
Requirement already satisfied: packaging>=20.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (25.0)
Requirement already satisfied: langcodes<4.0.0,>=3.2.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy) (3.5.0)
Requirement already satisfied: language-data>=1.2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from langcodes<4.0.0,>=3.2.0->spa
cy) (1.3.0)
Requirement already satisfied: typing-extensions>=4.2.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from pydantic!=1.8,!=1.8.1,
<1.11.0,>=1.7.4->spacy) (4.13.2)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from requests<3.0.0,>=2.13.
0->spacy) (3.4.2)
Requirement already satisfied: idna<4,>=2.5 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy) (3
.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from requests<3.0.0,>=2.13.0->spa
cy) (2.4.0)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from requests<3.0.0,>=2.13.0->spa
cy) (2025.4.26)
Requirement already satisfied: blis<0.8.0,>=0.7.8 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from thinc<8.2.0,>=8.1.8->spacy)
(0.7.9)
Requirement already satisfied: confection<1.0.0,>=0.0.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from thinc<8.2.0,>=8.1.8->s
pacy) (0.1.5)
Requirement already satisfied: colorama in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from tqdm<5.0.0,>=4.38.0->spacy) (0.4.6)
Requirement already satisfied: scipy>=1.6.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from scikit-learn) (1.13.1)
Requirement already satisfied: joblib>=1.2.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from scikit-learn) (1.5.0)
Requirement already satisfied: threadpoolctl>=3.1.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from scikit-learn) (3.6.0)
Requirement already satisfied: zipp>=3.20 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from importlib-metadata>=3.6.0->flask) (3.
```
```
Requirement already satisfied: joblib>=1.2.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from scikit-learn) (1.5.0)
Requirement already satisfied: threadpoolctl>=3.1.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from scikit-learn) (3.6.0)
Requirement already satisfied: zipp>=3.20 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from importlib-metadata>=3.6.0->flask) (3
.21.0)
Requirement already satisfied: marisa-trie>=1.1.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from language-data>=1.2->langcode
s<4.0.0,>=3.2.0->spacy) (1.2.1)
Requirement already satisfied: pathlib-abc==0.1.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from pathy>=0.10.0->spacy) (0.1.1
)
Using cached pypdf2-3.0.1-py3-none-any.whl (232 kB)
Installing collected packages: PyPDF2
Successfully installed PyPDF2-3.0.1
```
```
(venv) PS C:\Users\krlah\Downloads\AI_Powered_Resume_Ranker> python -m spacy download en_core_web_sm
>>
Collecting en-core-web-sm==3.5.0
  Downloading https://github.com/explosion/spacy-models/releases/download/en_core_web_sm-3.5.0/en_core_web_sm-3.5.0-py3-none-any.whl (12.8 MB)
                          12.8/12.8 MB 3.5 MB/s eta 0:00:00
Requirement already satisfied: spacy<3.6.0,>=3.5.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from en-core-web-sm==3.5.0) (3.5
.3)
Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.11 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0
->en-core-web-sm==3.5.0) (3.0.12)
Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0
->en-core-web-sm==3.5.0) (1.0.5)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->
en-core-web-sm==3.5.0) (1.0.12)
Requirement already satisfied: cymem<2.1.0,>=2.0.2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-cor
e-web-sm==3.5.0) (2.0.11)
Requirement already satisfied: preshed<3.1.0,>=3.0.2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-c
ore-web-sm==3.5.0) (3.0.9)
Requirement already satisfied: thinc<8.2.0,>=8.1.8 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-cor
e-web-sm==3.5.0) (8.1.12)
Requirement already satisfied: wasabi<1.2.0,>=0.9.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-co
re-web-sm==3.5.0) (1.1.3)
Requirement already satisfied: srsly<3.0.0,>=2.4.3 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-cor
e-web-sm==3.5.0) (2.5.1)
Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en
-core-web-sm==3.5.0) (2.0.10)
Requirement already satisfied: typer<0.8.0,>=0.3.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-cor
```
```
Requirement already satisfied: wasabi<1.2.0,>=0.9.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-co
re-web-sm==3.5.0) (1.1.3)
Requirement already satisfied: srsly<3.0.0,>=2.4.3 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-cor
e-web-sm==3.5.0) (2.5.1)
Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en
-core-web-sm==3.5.0) (2.0.10)
Requirement already satisfied: typer<0.8.0,>=0.3.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-cor
e-web-sm==3.5.0) (0.7.0)
Requirement already satisfied: pathy>=0.10.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-core-web-
sm==3.5.0) (0.11.0)
Requirement already satisfied: smart-open<7.0.0,>=5.2.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->e
n-core-web-sm==3.5.0) (6.4.0)
Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-cor
e-web-sm==3.5.0) (4.67.1)
Requirement already satisfied: numpy>=1.15.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-core-web-
sm==3.5.0) (1.23.5)
Requirement already satisfied: requests<3.0.0,>=2.13.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en
-core-web-sm==3.5.0) (2.32.3)
Requirement already satisfied: pydantic!=1.8,!=1.8.1,<1.11.0,>=1.7.4 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6
.0,>=3.5.0->en-core-web-sm==3.5.0) (1.10.22)
Requirement already satisfied: jinja2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-core-web-sm==3.5
.0) (3.1.6)
Requirement already satisfied: setuptools in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-core-web-sm=
=3.5.0) (80.7.1)
Requirement already satisfied: packaging>=20.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-core-we
b-sm==3.5.0) (25.0)
```

```
 Requirement already satisfied: packaging>=20.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en-core-we
b-sm==3.5.0) (25.0)
 Requirement already satisfied: langcodes<4.0.0,>=3.2.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy<3.6.0,>=3.5.0->en
-core-web-sm==3.5.0) (3.5.0)
 Requirement already satisfied: language-data>=1.2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from langcodes<4.0.0,>=3.2.0->spa
cy<3.6.0,>=3.5.0->en-core-web-sm==3.5.0) (1.3.0)
 Requirement already satisfied: typing-extensions>=4.2.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from pydantic!=1.8,!=1.8.1,
<1.11.0,>=1.7.4->spacy<3.6.0,>=3.5.0->en-core-web-sm==3.5.0) (4.13.2)
 Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from requests<3.0.0,>=2.13.
0->spacy<3.6.0,>=3.5.0->en-core-web-sm==3.5.0) (3.4.2)
 Requirement already satisfied: idna<4,>=2.5 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy<3.6
.0,>=3.5.0->en-core-web-sm==3.5.0) (3.10)
 Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from requests<3.0.0,>=2.13.0->spa
cy<3.6.0,>=3.5.0->en-core-web-sm==3.5.0) (2.4.0)
 Requirement already satisfied: certifi>=2017.4.17 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from requests<3.0.0,>=2.13.0->spa
cy<3.6.0,>=3.5.0->en-core-web-sm==3.5.0) (2025.4.26)
 Requirement already satisfied: blis<0.8.0,>=0.7.8 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from thinc<8.2.0,>=8.1.8->spacy<3
.6.0,>=3.5.0->en-core-web-sm==3.5.0) (0.7.9)
 Requirement already satisfied: confection<1.0.0,>=0.0.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from thinc<8.2.0,>=8.1.8->s
pacy<3.6.0,>=3.5.0->en-core-web-sm==3.5.0) (0.1.5)
 Requirement already satisfied: colorama in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from tqdm<5.0.0,>=4.38.0->spacy<3.6.0,>=3.5
.0->en-core-web-sm==3.5.0) (0.4.6)
 Requirement already satisfied: click<9.0.0,>=7.1.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from typer<0.8.0,>=0.3.0->spacy<
3.6.0,>=3.5.0->en-core-web-sm==3.5.0) (8.1.8)
 Requirement already satisfied: marisa-trie>=1.1.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from language-data>=1.2->langcode
s<4.0.0,>=3.2.0->spacy<3.6.0,>=3.5.0->en-core-web-sm==3.5.0) (1.2.1)
 Requirement already satisfied: pathlib-abc==0.1.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from pathy>=0.10.0->spacy<3.6.0,>
=3.5.0->en-core-web-sm==3.5.0) (0.1.1)
 Requirement already satisfied: MarkupSafe>=2.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from jinja2->spacy<3.6.0,>=3.5.0->en
```

```
 Requirement already satisfied: pathlib-abc==0.1.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from pathy>=0.10.0->spacy<3.6.0,>
=3.5.0->en-core-web-sm==3.5.0) (0.1.1)
 Requirement already satisfied: MarkupSafe>=2.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from jinja2->spacy<3.6.0,>=3.5.0->en
-core-web-sm==3.5.0) (3.0.2)
✓ Download and installation successful
You can now load the package via spacy.load('en_core_web_sm')
```

```
● (venv) PS C:\Users\krlah\Downloads\AI_Powered_Resume_Ranker> pip install spacy==3.5.3 --prefer-binary
>>
 Requirement already satisfied: spacy==3.5.3 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (3.5.3)
 Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.11 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (3.0.
12)
 Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (1.0.
5)
 Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (1.0.12
)
 Requirement already satisfied: cymem<2.1.0,>=2.0.2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (2.0.11)
 Requirement already satisfied: preshed<3.1.0,>=3.0.2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (3.0.9)
 Requirement already satisfied: thinc<8.2.0,>=8.1.8 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (8.1.12)
 Requirement already satisfied: wasabi<1.2.0,>=0.9.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (1.1.3)
 Requirement already satisfied: srsly<3.0.0,>=2.4.3 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (2.5.1)
 Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (2.0.10)
 Requirement already satisfied: typer<0.8.0,>=0.3.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (0.7.0)
 Requirement already satisfied: pathy>=0.10.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (0.11.0)
 Requirement already satisfied: smart-open<7.0.0,>=5.2.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (6.4.0)
 Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (4.67.1)
 Requirement already satisfied: numpy>=1.15.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (1.23.5)
 Requirement already satisfied: requests<3.0.0,>=2.13.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (2.32.3)
 Requirement already satisfied: pydantic!=1.8,!=1.8.1,<1.11.0,>=1.7.4 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.
5.3) (1.10.22)
 Requirement already satisfied: jinja2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (3.1.6)
```

```
 Requirement already satisfied: setuptools in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (80.7.1)
 Requirement already satisfied: packaging>=20.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (25.0)
 Requirement already satisfied: langcodes<4.0.0,>=3.2.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from spacy==3.5.3) (3.5.0)
 Requirement already satisfied: language-data>=1.2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from langcodes<4.0.0,>=3.2.0->spa
cy==3.5.3) (1.3.0)
 Requirement already satisfied: typing-extensions>=4.2.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from pydantic!=1.8,!=1.8.1,
<1.11.0,>=1.7.4->spacy==3.5.3) (4.13.2)
 Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from requests<3.0.0,>=2.13.
0->spacy==3.5.3) (3.4.2)
 Requirement already satisfied: idna<4,>=2.5 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy==3.
5.3) (3.10)
 Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from requests<3.0.0,>=2.13.0->spa
cy==3.5.3) (2.4.0)
 Requirement already satisfied: certifi>=2017.4.17 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from requests<3.0.0,>=2.13.0->spa
cy==3.5.3) (2025.4.26)
 Requirement already satisfied: blis<0.8.0,>=0.7.8 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from thinc<8.2.0,>=8.1.8->spacy==
3.5.3) (0.7.9)
 Requirement already satisfied: confection<1.0.0,>=0.0.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from thinc<8.2.0,>=8.1.8->s
pacy==3.5.3) (0.1.5)
 Requirement already satisfied: colorama in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from tqdm<5.0.0,>=4.38.0->spacy==3.5.3) (0.
4.6)
 Requirement already satisfied: click<9.0.0,>=7.1.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from typer<0.8.0,>=0.3.0->spacy=
=3.5.3) (8.1.8)
 Requirement already satisfied: marisa-trie>=1.1.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from language-data>=1.2->langcode
s<4.0.0,>=3.2.0->spacy==3.5.3) (1.2.1)
 Requirement already satisfied: pathlib-abc==0.1.1 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from pathy>=0.10.0->spacy==3.5.3)
 (0.1.1)
 Requirement already satisfied: MarkupSafe>=2.0 in c:\users\krlah\downloads\ai_powered_resume_ranker\venv\lib\site-packages (from jinja2->spacy==3.5.3) (3.0.2)
```

```
(venv) PS C:\Users\krlah\Downloads\AI_Powered_Resume_Ranker> python app.py
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 141-971-003
127.0.0.1 - - [20/May/2025 23:01:02] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [20/May/2025 23:01:03] "GET /static/style.css HTTP/1.1" 200 -
127.0.0.1 - - [20/May/2025 23:01:10] "POST / HTTP/1.1" 500 -
```

```
(venv) PS C:\Users\krlah\Downloads\AI_Powered_Resume_Ranker> python app.py
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 141-971-003
127.0.0.1 - - [20/May/2025 19:35:08] "GET / HTTP/1.1" 200 -
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
127.0.0.1 - - [20/May/2025 19:35:17] "POST / HTTP/1.1" 200 -
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
```

```
(venv) PS C:\Users\krlah\Downloads\AI_Powered_Resume_Ranker> python app.py
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 141-971-003
127.0.0.1 - - [20/May/2025 23:08:57] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [20/May/2025 23:08:58] "GET /static/style.css HTTP/1.1" 304 -
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
CropBox missing from /Page, defaulting to MediaBox
127.0.0.1 - - [20/May/2025 23:10:34] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [20/May/2025 23:10:35] "GET /static/style.css HTTP/1.1" 304 -
```

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Natural Language Processing, machine
learning, and Flask.

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3. resume2.pdf - Score: 0.58