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import os

import pandas as pd

import spacy

from pdfminer.high_level import extract_text


# Load NLP model

nlp = spacy.load("en_core_web_sm")


# Define job description

JOB_DESCRIPTION = "We are looking for a Python developer with experience in machine learning and NLP."

job_doc = nlp(JOB_DESCRIPTION)


def extract_text_from_pdf(pdf_path):
    """Extract text from a PDF file."""
    return extract_text(pdf_path)


def calculate_match_score(resume_text, job_doc):
    """Calculate match score based on similarity."""
    resume_doc = nlp(resume_text)
    return resume_doc.similarity(job_doc)


def process_resumes(resume_folder):
    """Process all resumes in a folder and rank them."""
    scores = []
    for filename in os.listdir(resume_folder):
        if filename.endswith(".pdf"):
            file_path = os.path.join(resume_folder, filename)
            text = extract_text_from_pdf(file_path)
            score = calculate_match_score(text, job_doc)
            scores.append((filename, score))
```

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# Rank resumes by score

ranked_resumes = sorted(scores, key=lambda x: x[1], reverse=True)

return pd.DataFrame(ranked_resumes, columns=["Resume", "Score"])


if __name__ == "__main__":

    folder_path = "resumes" # Folder containing resumes

    results = process_resumes(folder_path)

    print(results)
```