



```
In [1]: import streamlit as st
import pandas as pd
from PyPDF2 import PdfReader
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.metrics.pairwise import cosine_similarity

# Function to extract text from PDFs
def extract_text_from_pdf(file):
    pdf = PdfReader(file)
    text = ""
    for page in pdf.pages:
        if page.extract_text(): # Ensure text is extracted
            text += page.extract_text()
    return text

# Function to rank resumes based on job description
def rank_resumes(job_description, resumes):
    documents = [job_description] + resumes # Combine job description and
    vectorizer = TfidfVectorizer()
    tfidf_matrix = vectorizer.fit_transform(documents)
    vectors = tfidf_matrix.toarray()

    job_description_vector = vectors[0] # First element is job description
    resume_vectors = vectors[1:] # Remaining elements are resumes

    cosine_similarities = cosine_similarity([job_description_vector], resume_vectors)
    return cosine_similarities

# Streamlit App
st.title("AI Resume Screening & Candidate Ranking System")

# Input for job description
st.header("Job Description")
job_description = st.text_area("Enter the job description")

# File uploader for resumes
uploaded_files = st.file_uploader("Upload Resumes (PDFs)", accept_multiple_files=True)

if uploaded_files and job_description:
    st.header("Ranking Resumes")

    resumes = []
    for file in uploaded_files:
        text = extract_text_from_pdf(file)
        resumes.append(text)

    # Rank resumes
    scores = rank_resumes(job_description, resumes)

    # Display scores in a DataFrame
    results = pd.DataFrame({"Resume": [file.name for file in uploaded_files], "Score": scores})
    results = results.sort_values(by="Score", ascending=False)

    st.write(results)
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2025-02-26 01:24:36.715 WARNING streamlit.runtime.scriptrunner_utils.scrip
t_run_context: Thread 'MainThread': missing ScriptRunContext! This warning
can be ignored when running in bare mode.
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2025-02-26 01:24:37.552
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**Warning:** to view this Streamlit app on a browser, run it with the follow  
ing  
command:

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streamlit run C:\Users\ROG\anaconda3\Lib\site-packages\ipykernel_launcher.py [ARGUMENTS]
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2025-02-26 01:24:37.571 Session state does not function when running a scr
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