AI Resume Screening & Candidate Ranking System

Source code of the application

```
import streamlit as st
from PyPDF2 import PdfReader
import pandas as pd
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.metrics.pairwise import cosine_similarity


def extract_text_from_pdf(file):
    pdf = PdfReader(file)
    text = ""
    for page in pdf.pages:
        text += page.extract_text()
    return text


def rank_resumes(job_description, resumes):
    documents = [job_description] + resumes
    vectorizer = TfidfVectorizer().fit_transform(documents)
    vectors = vectorizer.toarray()


    job_description_vector = vectors[0]
    resume_vectors = vectors[1:]


    cosine_similarities = cosine_similarity([job_description_vector],
resume_vectors).flatten()
    return cosine_similarities
```

```
st.title("AI Resume Screening & Candidate Ranking System")

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

st.header("Upload Resumes")
uploaded_files = st.file_uploader("Upload PDF files", type=["pdf"],
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)

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

    st.write(results)
```

Screenshots Of the Application: