RESUME ANALYZER REPORT

➢ INTRODUCTION

⇨ We created a model that analyses the resume on the basis of provided job description. It provides us a score on the basis of the requirements we put for job by further analyzing the resume. It also provides us with reason that on what basis it predicts the score.

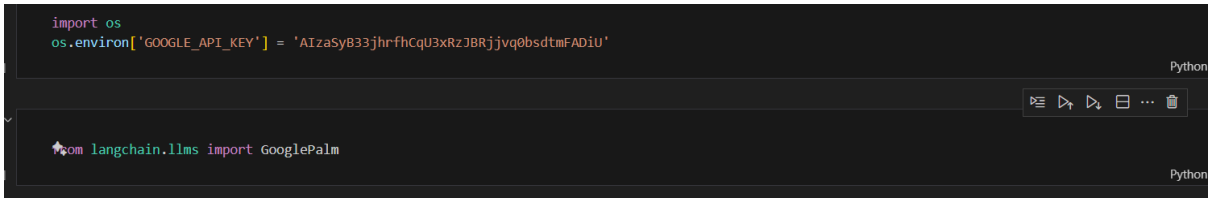
➢ LIBRARIES IMPORTED

⇨ Langchain is used to create templates to provide info to chatbot

⇨ Google-generativeai is used to connect the api

⇨ PyPDF2 is used to read and access the PDF

➢ API CONNECTION



⇨ Gemini is connected by generation an API key and connecting to it

➢ Template Of Analyzer

```
from langchain import LLMChain
from langchain import PromptTemplate
llm = GooglePalm(temperature=0.1, deprecation_schedule='default')

jd = '''We are seeking a highly skilled Senior Software Engineer to join our dynamic
team. The ideal candidate will have extensive experience in software development, a strong
understanding of modern programming languages, and a passion for building scalable
applications.'''

key_responsibilities = '''Focus on achievements and skills rather than just listing job duties.
Tailor your responsibilities to the job you're applying for, highlighting the most relevant skills and experiences.
Use a clear and concise writing style, avoiding jargon and overly technical language.'''

experience = "Consider as a positive point if the person has a prior experience in the field."

qualifications = 'Should be well qualified in the fields related to the job he/she is applying for.'

resume = "Should be concise and point should be explained to the point and should match the job requirement.Also the resume teamplate should be atractive so that it is easy to revie

skills = "Should have strong hold on programming laguages and should be have a passion for building applications."

template = """You are a helpful and harmless AI assistant that is an expert at reviewing resumes and predicting candidate success based on the provided Job description assist me tha

Given the following resume information, please predict a score for this candidate on a scale of 1 to 10, where 1 is very unlikely to succeed, and 10 is extremely likely to succeed.T

Please provide only the numerical score.

Job Description:
{jd}


Key Responsibilities:
{key_responsibilities}
```

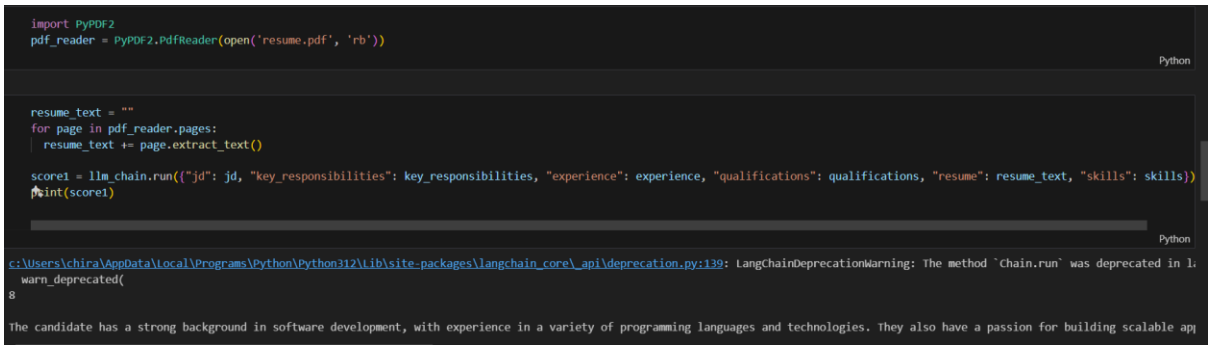
```
Key Responsibilities:
{key_responsibilities}

Experience:
{experience}

skills:
{skills}

Qualifications:
{qualifications}

Resume Information:
{resume}


Score:
predict the numerical score and also give the explanation.
"""

# Create a prompt template object
prompt_template = PromptTemplate(input_variables=["resume"], template = template)
# Create a LLMChain object
llm_chain = LLMChain(llm=llm, prompt=prompt_template)
```

➔A template is created which has different arguments on basis of which the resume is shortlisted. They are listed below:

1. Job Description(jd) : 'We are seeking a highly skilled Senior Software Engineer to join our dynamic team. The ideal candidate will have extensive experience in software development, a strong understanding of modern programming languages, and a passion for building scalable applications
2. key_responsibilities = Focus on achievements and skills rather than just listing job duties. Tailor your responsibilities to the job you're applying for, highlighting the most relevant skills and experiences.
3. experience = Consider as a positive point if the person has a prior experience in the field.

4. qualifications = Should be well qualified in the fields related to the job he/she is applying for.
5. resume = Should be concise and point should be explained to the point and should match the job requirement.Also the resume teamplate should be atractive so that it is easy to review it.
6. skills = Should have strong hold on programming laguages and should be have a passion for building applications.

➢ READ AND ANALYSE THE RESUME



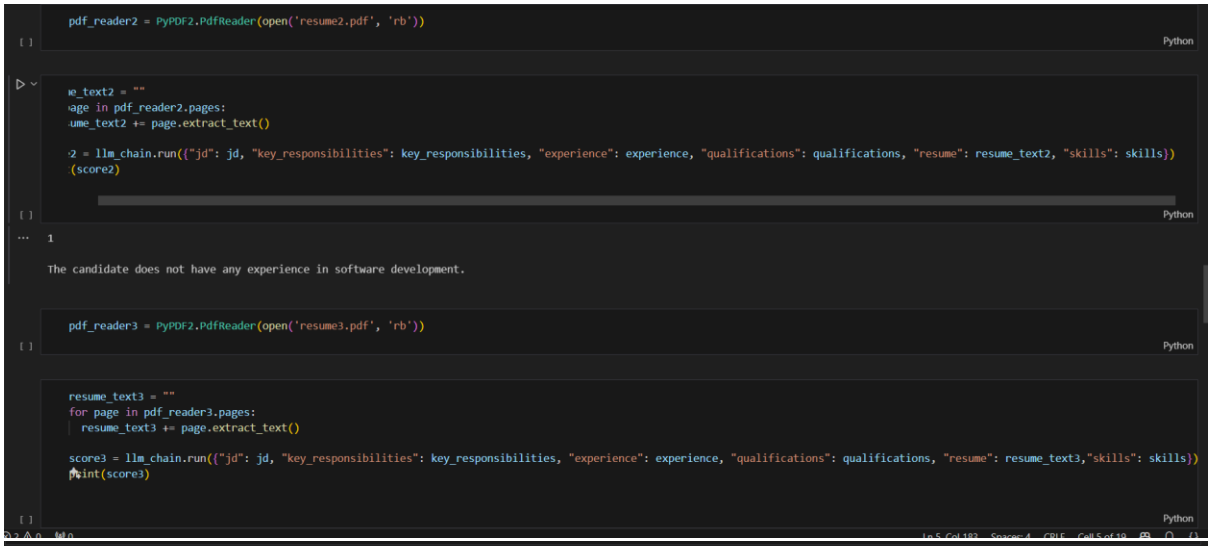
```
import PyPDF2
pdf_reader = PyPDF2.PdfReader(open('resume.pdf', 'rb'))
```

Python

```
resume_text = ""
for page in pdf_reader.pages:
  resume_text += page.extract_text()

score1 = llm_chain.run({"jd": jd, "key_responsibilities": key_responsibilities, "experience": experience, "qualifications": qualifications, "resume": resume_text, "skills": skills})
print(score1)
```

Python

```
c:\Users\chira\AppData\Local\Programs\Python\Python312\Lib\site-packages\langchain_core\_api\deprecation.py:139: LangChainDeprecationWarning: The method `Chain.run` was deprecated in 1.
  warn_deprecated(
8

The candidate has a strong background in software development, with experience in a variety of programming languages and technologies. They also have a passion for building scalable ap
```



```
pdf_reader2 = PyPDF2.PdfReader(open('resume2.pdf', 'rb'))
```

Python

```
e_text2 = ""
age in pdf_reader2.pages:
ume_text2 += page.extract_text()

2 = llm_chain.run({"jd": jd, "key_responsibilities": key_responsibilities, "experience": experience, "qualifications": qualifications, "resume": resume_text2, "skills": skills})
(score2)
```

Python

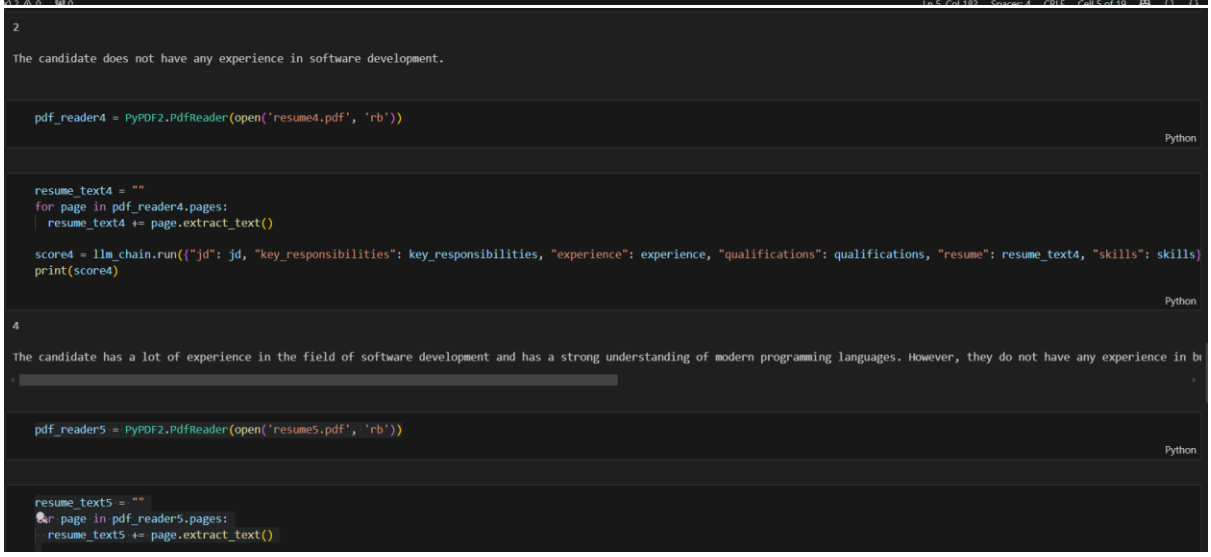
```
1

The candidate does not have any experience in software development.
```

```
pdf_reader3 = PyPDF2.PdfReader(open('resume3.pdf', 'rb'))
```

Python

```
resume_text3 = ""
for page in pdf_reader3.pages:
  resume_text3 += page.extract_text()

score3 = llm_chain.run({"jd": jd, "key_responsibilities": key_responsibilities, "experience": experience, "qualifications": qualifications, "resume": resume_text3,"skills": skills})
print(score3)
```

Python



```
2

The candidate does not have any experience in software development.
```

```
pdf_reader4 = PyPDF2.PdfReader(open('resume4.pdf', 'rb'))
```

Python

```
resume_text4 = ""
for page in pdf_reader4.pages:
  resume_text4 += page.extract_text()

score4 = llm_chain.run({"jd": jd, "key_responsibilities": key_responsibilities, "experience": experience, "qualifications": qualifications, "resume": resume_text4, "skills": skills}
print(score4)
```

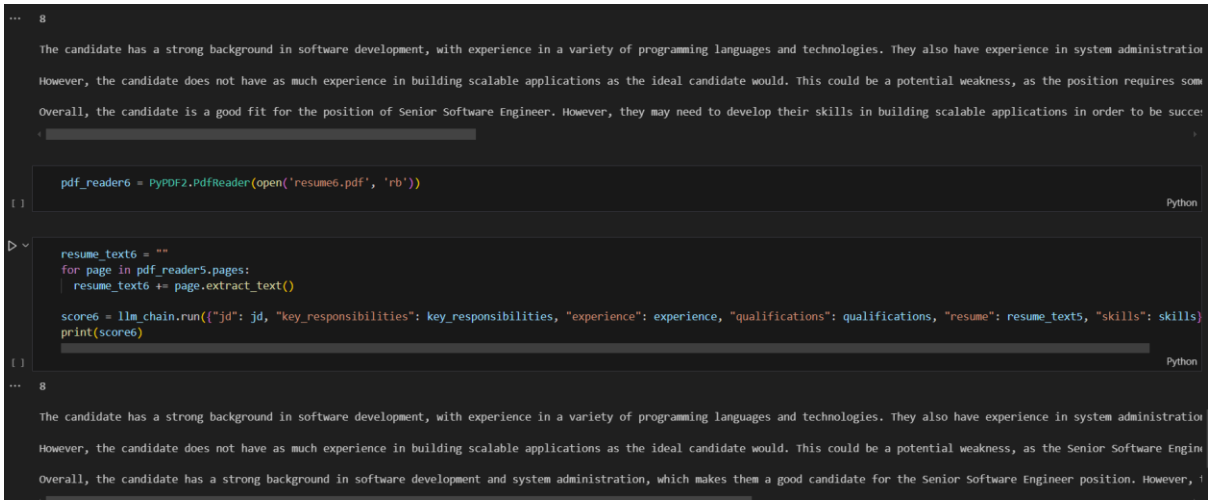
Python

```
4

The candidate has a lot of experience in the field of software development and has a strong understanding of modern programming languages. However, they do not have any experience in bi
```

```
pdf_reader5 = PyPDF2.PdfReader(open('resume5.pdf', 'rb'))
```

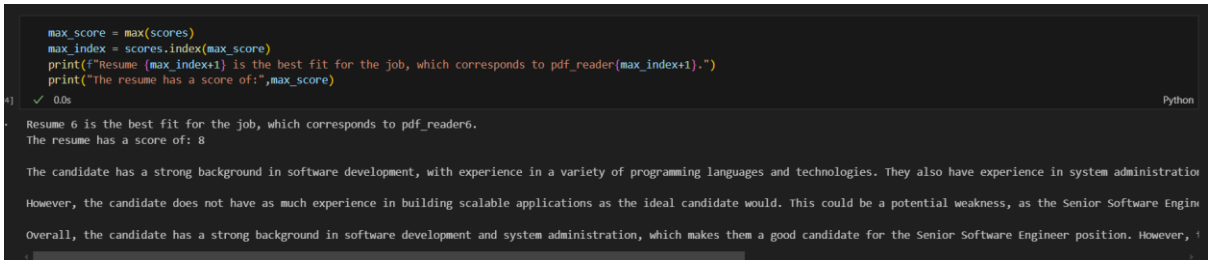
Python

```
resume_text5 = ""
r page in pdf_reader5.pages:
  resume_text5 += page.extract_text()
```



⇨ As we can see it reads and analyses the resume and further predicts a score out of 10 and also provides us the reason i.e. on what basis the score is predicted.

➢ Shortlisting The Resume With Max Score



⇨ By Creating an array of scored and getting the maximum value we get the best shortlisted resume and a corresponding resume to it.