SPRINT 2

TEAM ID	PNT2022TMID22144
PROJECT NAME	Skill Based Job Recommender Application

ADMIN PANEL

Code:

```
def run():
    st.title("Job Recommender")
    code = '''
    window.watsonAssistantChatOptions = {integrationID: "0bb96b92-4e98-44c7-9dab-
3a5fe2ff8562",region: "au-syd",serviceInstanceID: "e5babddc-2ad5-4eac-a0c5-
6dad126622cb", onLoad: function(instance) { instance.render(); }};
    setTimeout(function(){ const t=document.createElement('script');
    t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
    document.head.appendChild(t);});
    '''
    st.code(code, language='javascript')
    # # Create the DB
    # db_sql = """CREATE DATABASE IF NOT EXISTS SRA;"""
    # cursor.execute(db_sql)

    # # Create table
    # DB_table_name = 'user_data'
    # table_sql = "CREATE TABLE IF NOT EXISTS " + DB_table_name + """
    #                 (ID INT NOT NULL AUTO_INCREMENT,
    #                  Name varchar(100) NOT NULL,
    #                  Email_ID VARCHAR(50) NOT NULL,
    #                  resume_score VARCHAR(8) NOT NULL,
    #                  Timestamp VARCHAR(50) NOT NULL,
    #                  Page_no VARCHAR(5) NOT NULL,
    #                  Predicted_Field VARCHAR(25) NOT NULL,
    #                  User_level VARCHAR(30) NOT NULL,
    #                  Actual_skills VARCHAR(300) NOT NULL,
    #                  Recommended_skills VARCHAR(300) NOT NULL,
```

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    #                 Recommended_courses VARCHAR(600) NOT NULL,
    #                 PRIMARY KEY (ID));
    #                """
    # cursor.execute(table_sql)
    # if choice == 'Normal User':
# st.markdown('''<h4 style='text-align: left; color: #d73b5c;'>* Upload your
resume, and get smart recommendation based on it."</h4>''',
#             unsafe_allow_html=True)



    st.sidebar.markdown("# Job Recommender")
    activities = ["Search For Job Recommendation","Upload Resume"]
    choice = st.sidebar.selectbox("Choose: ", activities)
    if choice == 'Search For Job Recommendation':
        searchbox()
    else:
        pdf_file = st.file_uploader("Choose your Resume", type=["pdf"])

        if pdf_file is not None:
            # with st.spinner('Uploading your Resume....'):
            #     time.sleep(4)
            # script_location = Path(__file__).absolute().parent
            # os.chdir(script_location)
            save_image_path = './Uploaded_Resumes' +pdf_file.name
            with open(save_image_path, "wb") as f:
                f.write(pdf_file.getbuffer())
            show_pdf(save_image_path)
            resume_data = ResumeParser(save_image_path).get_extracted_data()
            if resume_data:
                ## Get the whole resume data
                resume_text = pdf_reader(save_image_path)
                st.header("**Resume Analysis**")
                st.success("Hello "+ resume_data['name'])
                st.subheader("**Your Basic info**")

                try:
                    st.text('Name: '+resume_data['name'])
                    st.text('Email: ' + resume_data['email'])
                    st.text('Contact: ' + resume_data['mobile_number'])
                    st.text('Resume pages: '+str(resume_data['no_of_pages']))
                except:
                    pass
                cand_level = ''
                if resume_data['no_of_pages'] == 1:
```

```
                    cand_level = "Fresher"
                    st.markdown( '''<h4 style='text-align: left; color:
#d73b5c;'>You are looking Fresher.</h4>''',unsafe_allow_html=True)
                elif resume_data['no_of_pages'] == 2:
                    cand_level = "Intermediate"
                    st.markdown('''<h4 style='text-align: left; color:
#1ed760;'>You are at intermediate level!</h4>''',unsafe_allow_html=True)
                elif resume_data['no_of_pages'] >=3:
                    cand_level = "Experienced"
                    st.markdown('''<h4 style='text-align: left; color:
#fba171;'>You are at experience level!''',unsafe_allow_html=True)

                st.subheader("**Skills Recommendation💡**")
                ## Skill shows
                keywords = st_tags(label='### Skills that you have',
                text='See our skills recommendation',
                    value=resume_data['skills'],key = '1')

                ##  recommendation
                ds_keyword = ['tensorflow','keras','pytorch','machine
learning','deep Learning','flask','streamlit']
                web_keyword = ['react', 'django', 'node jS', 'react js', 'php',
'laravel', 'magento', 'wordpress',
                                'javascript', 'angular js', 'c#', 'flask']
                android_keyword = ['android','android
development','flutter','kotlin','xml','kivy']
                ios_keyword = ['ios','ios development','swift','cocoa','cocoa
touch','xcode']
                uiux_keyword = ['ux','adobe
xd','figma','zeplin','balsamiq','ui','prototyping','wireframes','storyframes','ad
obe photoshop','photoshop','editing','adobe illustrator','illustrator','adobe
after effects','after effects','adobe premier pro','premier pro','adobe
indesign','indesign','wireframe','solid','grasp','user research','user
experience']

                recommended_skills = []
                reco_field = ''
                rec_course = ''
                ## Courses recommendation
                for i in resume_data['skills']:
                    ## Data science recommendation
                    if i.lower() in ds_keyword:
                        print(i.lower())
                        reco_field = 'Data Science'
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```
                        st.success("** Our analysis says you are looking for Data
Science Jobs.**")
                        recommended_skills = ['Data Visualization','Predictive
Analysis','Statistical Modeling','Data Mining','Clustering &
Classification','Data Analytics','Quantitative Analysis','Web Scraping','ML
Algorithms','Keras','Pytorch','Probability','Scikit-
learn','Tensorflow',"Flask",'Streamlit']
                        recommended_keywords = st_tags(label='### Recommended
skills for you.',
                        text='Recommended skills generated from
System',value=recommended_skills,key = '2')
                        st.markdown('''<h4 style='text-align: left; color:
#1ed760;'>Adding this skills to resume will boost🚀 the chances of getting a
Job💼</h4>''',unsafe_allow_html=True)
                        rec_course = course_recommender(ds_course)
                        break

                    ## Web development recommendation
                    elif i.lower() in web_keyword:
                        print(i.lower())
                        reco_field = 'Web Development'
                        st.success("** Our analysis says you are looking for Web
Development Jobs **")
                        recommended_skills = ['React','Django','Node JS','React
JS','php','laravel','Magento','wordpress','Javascript','Angular
JS','c#','Flask','SDK']
                        recommended_keywords = st_tags(label='### Recommended
skills for you.',
                        text='Recommended skills generated from
System',value=recommended_skills,key = '3')
                        st.markdown('''<h4 style='text-align: left; color:
#1ed760;'>Adding this skills to resume will boost🚀 the chances of getting a
Job💼</h4>''',unsafe_allow_html=True)
                        rec_course = course_recommender(web_course)
                        break

                    ## Android App Development
                    elif i.lower() in android_keyword:
                        print(i.lower())
                        reco_field = 'Android Development'
                        st.success("** Our analysis says you are looking for
Android App Development Jobs **")
                        recommended_skills = ['Android','Android
development','Flutter','Kotlin','XML','Java','Kivy','GIT','SDK','SQLite']
```

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                        recommended_keywords = st_tags(label='### Recommended
skills for you.',
                        text='Recommended skills generated from
System',value=recommended_skills,key = '4')
                        st.markdown('''<h4 style='text-align: left; color:
#1ed760;'>Adding this skills to resume will boost🚀 the chances of getting a
Job💼</h4>''',unsafe_allow_html=True)
                        rec_course = course_recommender(android_course)
                        break

                    ## IOS App Development
                    elif i.lower() in ios_keyword:
                        print(i.lower())
                        reco_field = 'IOS Development'
                        st.success("** Our analysis says you are looking for IOS
App Development Jobs **")
                        recommended_skills = ['IOS','IOS
Development','Swift','Cocoa','Cocoa Touch','Xcode','Objective-
C','SQLite','Plist','StoreKit',"UI-Kit",'AV Foundation','Auto-Layout']
                        recommended_keywords = st_tags(label='### Recommended
skills for you.',
                        text='Recommended skills generated from
System',value=recommended_skills,key = '5')
                        st.markdown('''<h4 style='text-align: left; color:
#1ed760;'>Adding this skills to resume will boost🚀 the chances of getting a
Job💼</h4>''',unsafe_allow_html=True)
                        rec_course = course_recommender(ios_course)
                        break

                    ## Ui-UX Recommendation
                    elif i.lower() in uiux_keyword:
                        print(i.lower())
                        reco_field = 'UI-UX Development'
                        st.success("** Our analysis says you are looking for UI-
UX Development Jobs **")
                        recommended_skills = ['UI','User Experience','Adobe
XD','Figma','Zeplin','Balsamiq','Prototyping','Wireframes','Storyframes','Adobe
Photoshop','Editing','Illustrator','After Effects','Premier
Pro','Indesign','Wireframe','Solid','Grasp','User Research']
                        recommended_keywords = st_tags(label='### Recommended
skills for you.',
                        text='Recommended skills generated from
System',value=recommended_skills,key = '6')
```

```
                        st.markdown('''<h4 style='text-align: left; color:
#1ed760;'>Adding this skills to resume will boost🚀 the chances of getting a
Job💼</h4>''',unsafe_allow_html=True)
                        rec_course = course_recommender(uiux_course)
                        break

                # #
                # ## Insert into table
                # ts = time.time()
                # cur_date = datetime.datetime.fromtimestamp(ts).strftime('%Y-%m-
%d')
                # cur_time =
datetime.datetime.fromtimestamp(ts).strftime('%H:%M:%S')
                # timestamp = str(cur_date+'_'+cur_time)

                ### Resume writing recommendation
                st.subheader("**Resume Tips & Ideas💡**")
                resume_score = 0
                if 'Objective' in resume_text:
                    resume_score = resume_score+20
                    st.markdown('''<h4 style='text-align: left; color:
#1ed760;'>[+] Awesome! You have added Objective</h4>''',unsafe_allow_html=True)
                else:
                    st.markdown('''<h4 style='text-align: left; color:
#fabc10;'>[-] According to our recommendation please add your career objective,
it will give your career intension to the
Recruiters.</h4>''',unsafe_allow_html=True)

                if 'Declaration'  in resume_text:
                    resume_score = resume_score + 20
                    st.markdown('''<h4 style='text-align: left; color:
#1ed760;'>[+] Awesome! You have added
Delcaration✍/h4>''',unsafe_allow_html=True)
                else:
                    st.markdown('''<h4 style='text-align: left; color:
#fabc10;'>[-] According to our recommendation please add Declaration✍. It will
give the assurance that everything written on your resume is true and fully
acknowledged by you</h4>''',unsafe_allow_html=True)

                if 'Hobbies' or 'Interests'in resume_text:
                    resume_score = resume_score + 20
                    st.markdown('''<h4 style='text-align: left; color:
#1ed760;'>[+] Awesome! You have added your
Hobbies⚽</h4>''',unsafe_allow_html=True)
                else:
```

```
                    st.markdown('''<h4 style='text-align: left; color:
#fabc10;'>[-] According to our recommendation please add Hobbies⚽. It will show
your persnality to the Recruiters and give the assurance that you are fit for
this role or not.</h4>''',unsafe_allow_html=True)

                if 'Achievements' in resume_text:
                    resume_score = resume_score + 20
                    st.markdown('''<h4 style='text-align: left; color:
#1ed760;'>[+] Awesome! You have added your Achievements🎖
</h4>''',unsafe_allow_html=True)
                else:
                    st.markdown('''<h4 style='text-align: left; color:
#fabc10;'>[-] According to our recommendation please add Achievements🎖. It will
show that you are capable for the required
position.</h4>''',unsafe_allow_html=True)

                if 'Projects' in resume_text:
                    resume_score = resume_score + 20
                    st.markdown('''<h4 style='text-align: left; color:
#1ed760;'>[+] Awesome! You have added your Projects💪💻
</h4>''',unsafe_allow_html=True)
                else:
                    st.markdown('''<h4 style='text-align: left; color:
#fabc10;'>[-] According to our recommendation please add Projects💪💻. It will
show that you have done work related the required position or
not.</h4>''',unsafe_allow_html=True)

                st.subheader("**Resume Score📝**")
                st.markdown(
                    """
                    <style>
                        .stProgress > div > div > div > div {
                            background-color: #d73b5c;
                        }
                    </style>""",
                    unsafe_allow_html=True,
                )
                my_bar = st.progress(0)
                score = 0
                for percent_complete in range(resume_score):
                    score +=1
                    time.sleep(0.1)
                    my_bar.progress(percent_complete + 1)
                st.success('** Your Resume Writing Score: ' + str(score)+'**')
```

```
                st.warning("** Note: This score is calculated based on the
content that you have added in your Resume. **")
                st.balloons()
                rsd = resume_data
                rsl(rsd)
```