

# SPRINT 3

TEAM ID	PNT2022TMID22144
PROJECT NAME	Skill Based Job Recommender

## CHAT BOX

## CODE:

```
1 import streamlit as st
2 import streamlit.components.v1 as components
3 import pandas as pd
4 import numpy as np
5 import base64, random
6 import re, os
7 from ftfy import fix_text
8 from nltk.corpus import stopwords
9 from sklearn.metrics.pairwise import cosine_similarity
10 from sklearn.feature_extraction.text import TfidfVectorizer
11 from sklearn.neighbors import NearestNeighbors
12 import time, datetime
13 from pyresparser import ResumeParser
14 from pdfminer3.layout import LAParams, LTTextBox
15 from pdfminer3.pdfpage import PDFPage
16 from pdfminer3.pdfinterp import PDFResourceManager
17 from pdfminer3.pdfinterp import PDFPageInterpreter
18 from pdfminer3.converter import TextConverter
19 import io, random
20 from streamlit.tags import st_tags
21 import streamlit.components.v1 as stc
22 from PIL import Image
23 import sqlite3
24 from Courses import ds_course, web_course, android_course, ios_course, uiux_course, resume_videos, interview_videos
25 import plotly.express as px
26 from pathlib import Path
27 import hashlib
28
29 script_location = Path(__file__).absolute().parent
30 os.chdir(script_location)
```

```
31
32 def make_hashes(password):
33     return hashlib.sha256(str.encode(password)).hexdigest()
34
35 def check_hashes(password, hashed_text):
36     if make_hashes(password) == hashed_text:
37         return hashed_text
38     return False
39
40 conn = sqlite3.connect('data.db')
41 c = conn.cursor()
42 def create_usertable():
43     c.execute('CREATE TABLE IF NOT EXISTS userstable(username TEXT,password TEXT)')
44
45
46 def add_userdata(username,password):
47     c.execute('INSERT INTO userstable(username,password) VALUES (?,?)',(username,password))
48     conn.commit()
49
50 def login_user(username,password):
51     c.execute('SELECT * FROM userstable WHERE username =? AND password = ?',(username,password))
52     data = c.fetchall()
53     return data
54
55
56 def pdf_reader(file):
57     resource_manager = PDFResourceManager()
58     fake_file_handle = io.StringIO()
59     converter = TextConverter(resource_manager, fake_file_handle, laparams=LAParams())
60
61     page_interpreter = PDFPageInterpreter(resource_manager, converter)
```



```

150         return distances, indices
151
152     nbrs = NearestNeighbors(n_neighbors=1, n_jobs=-1).fit(tfidf)
153     unique_org = (df1['test'].values)
154     distances, indices = getNearestN(unique_org)
155     unique_org = list(unique_org)
156     matches = []
157     for i,j in enumerate(indices):
158         dist=round(distances[i][0],2)
159
160         temp = [dist]
161         matches.append(temp)
162     matches = pd.DataFrame(matches, columns=['Match confidence'])
163     df1['match']=matches['Match confidence']
164     df1=df1.sort_values('match')
165     df2=df1[['Position', 'Company', 'Location', 'url']].head(10).reset_index()
166     # st.table(df2)
167
168     list_template = """
169     <div style='color:#fff'>
170     <h2>{}</h2>
171     <h3>{}</h3>
172     <h4>{}</h4>
173     </div>
174     """
175     for i in range(len(df2)):
176         jt = df2.loc[i, "Position"]
177         cp = df2.loc[i, "Company"]
178         lc = df2.loc[i, "Location"]
179         jurl = df2.loc[i, "url"]
180         st.markdown(list_template.format(jt,cp,lc),unsafe_allow_html=True)

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180         st.markdown(list_template.format(jt,cp,lc),unsafe_allow_html=True)
181         with st.expander("Apply for job"):
182             stc.html(jurl)
183
184
185     st.set_page_config(
186         page_title="Job Recommender",
187     )
188     def run():
189         st.title("Job Recommender")
190         # st.markdown(''<h4 style='text-align: left; color: #d73b5c;'>* Upload your resume, and get smart recommendation based on it.</h4>'',
191         #             unsafe_allow_html=True)
192
193         st.sidebar.markdown("# Job Recommender")
194         activities = ["Sign Up","Log In","Search For Job Recommendation","Upload Resume"]
195         choice = st.sidebar.selectbox("Choose: ", activities)
196         if choice == "Sign Up":
197             st.subheader("Create an Account")
198             new_user = st.text_input('Username')
199             new_passwd = st.text_input('Password',type='password')
200             components.html(''
201                 <style>
202                 #place{
203                     position:fixed;
204                     bottom:0;
205                 }
206                 </style>
207                 <div id="place">
208                     <script>
209                         window.watsonAssistantChatOptions = {integrationID: "0bb96b92-4e98-44c7-9dab-3a5fe2ff8562",region: "au-syd", service
210                         setTimeout(function(){const t=document.createElement('script'); t.src="https://web-chat.global.assistant.watson.app

```

```

210                         setTimeout(function(){const t=document.createElement('script'); t.src="https://web-chat.global.assistant.watson.app
211                         </script>
212                     </div>
213                     ''',height=600,)

```