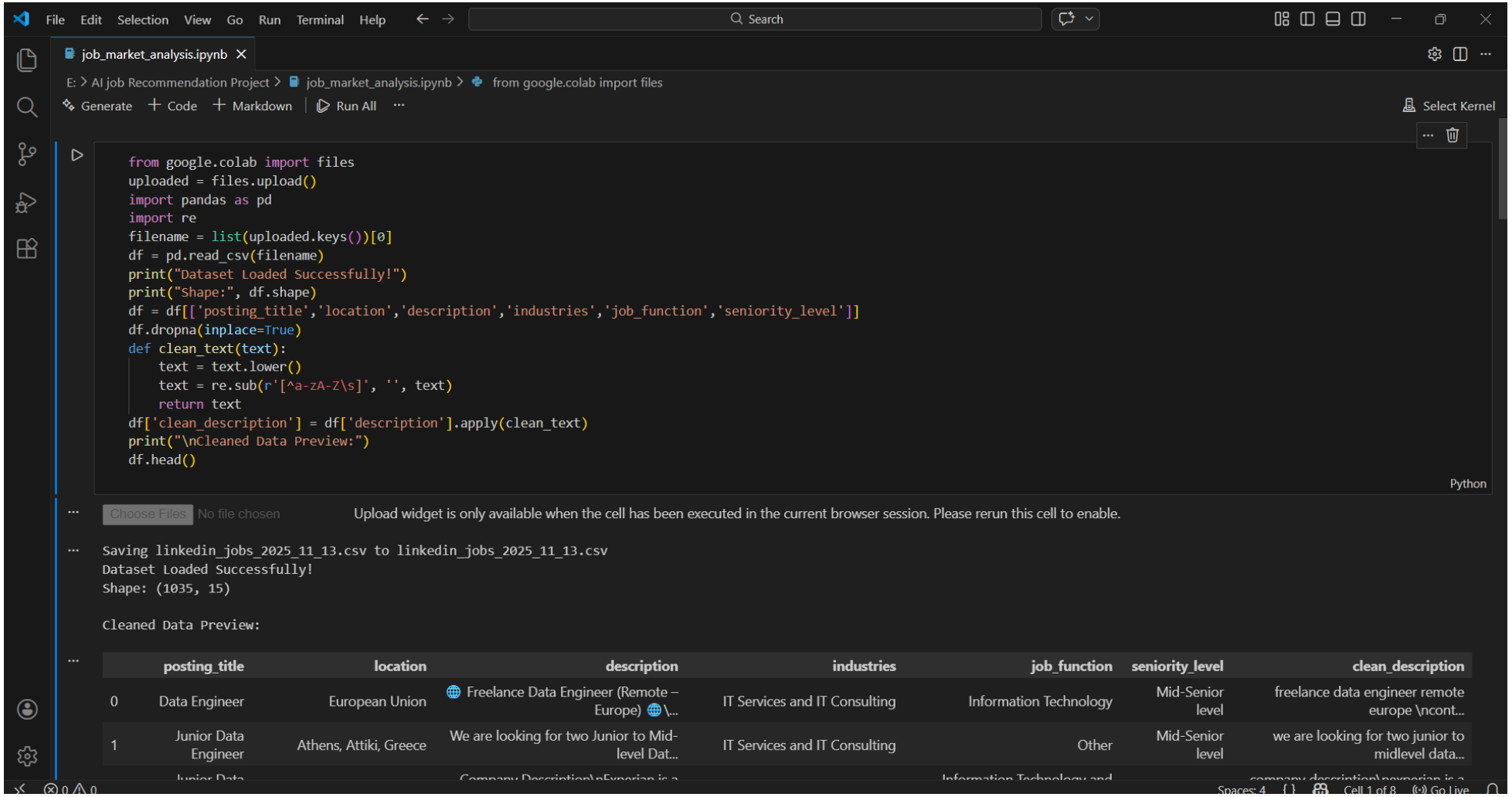


	posting_title	location	description	industries	job_function	seniority_level	clean_description
0	Data Engineer	European Union	🌐 Freelance Data Engineer (Remote – Europe) 🌐\...	IT Services and IT Consulting	Information Technology	Mid-Senior level	freelance data engineer remote europe \ncont...
1	Junior Data Engineer	Athens, Attiki, Greece	We are looking for two Junior to Mid-level Dat...	IT Services and IT Consulting	Other	Mid-Senior level	we are looking for two junior to midlevel data...

File Edit Selection View Go Run Terminal Help

Search

job_market_analysis.ipynb

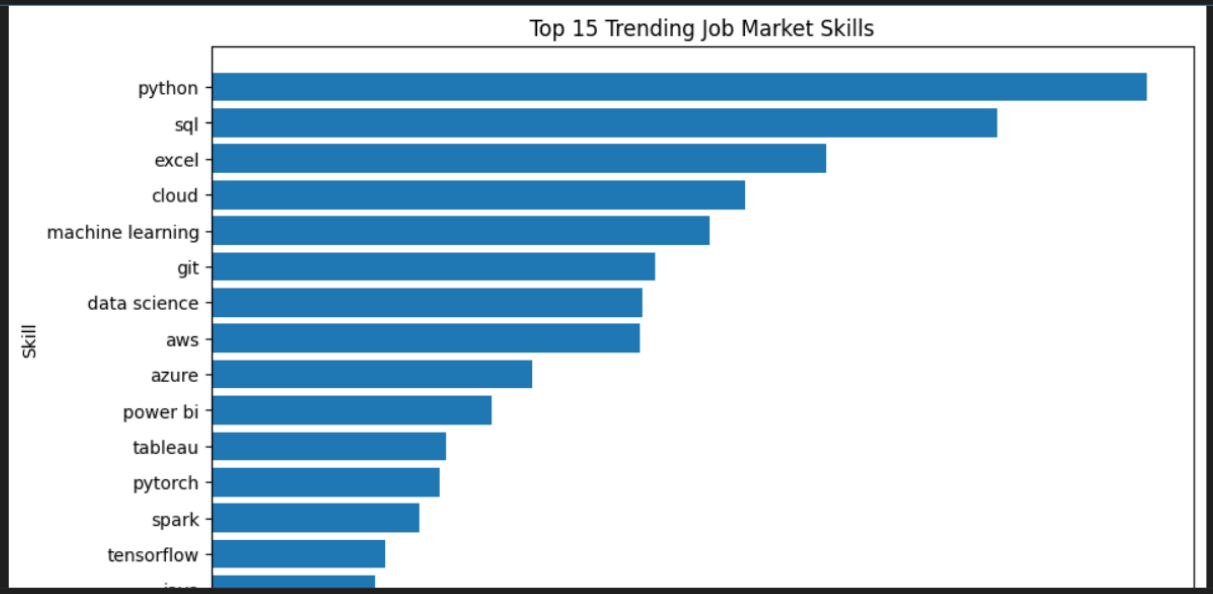
E: > AI job Recommendation Project > job_market_analysis.ipynb > top_skills = skill_df.head(15)

Generate + Code + Markdown | Run All ···

Select Kernel

```python
top_skills = skill_df.head(15)
plt.figure(figsize=(10,6))
plt.barh(top_skills['Skill'], top_skills['Demand_Count'])
plt.xlabel("Job Demand")
plt.ylabel("Skill")
plt.title("Top 15 Trending Job Market Skills")
plt.gca().invert_yaxis()
plt.show()
```

Python



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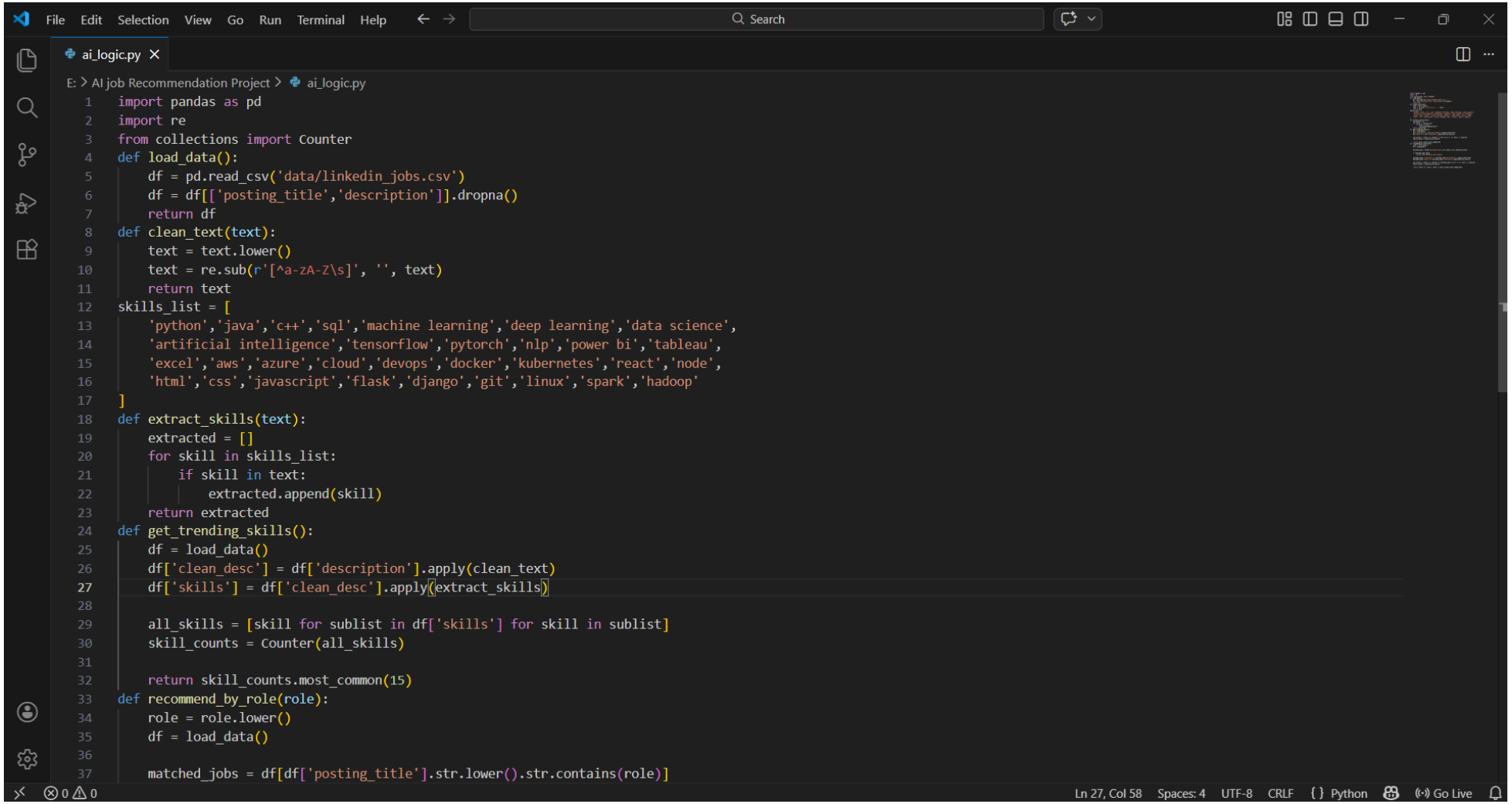
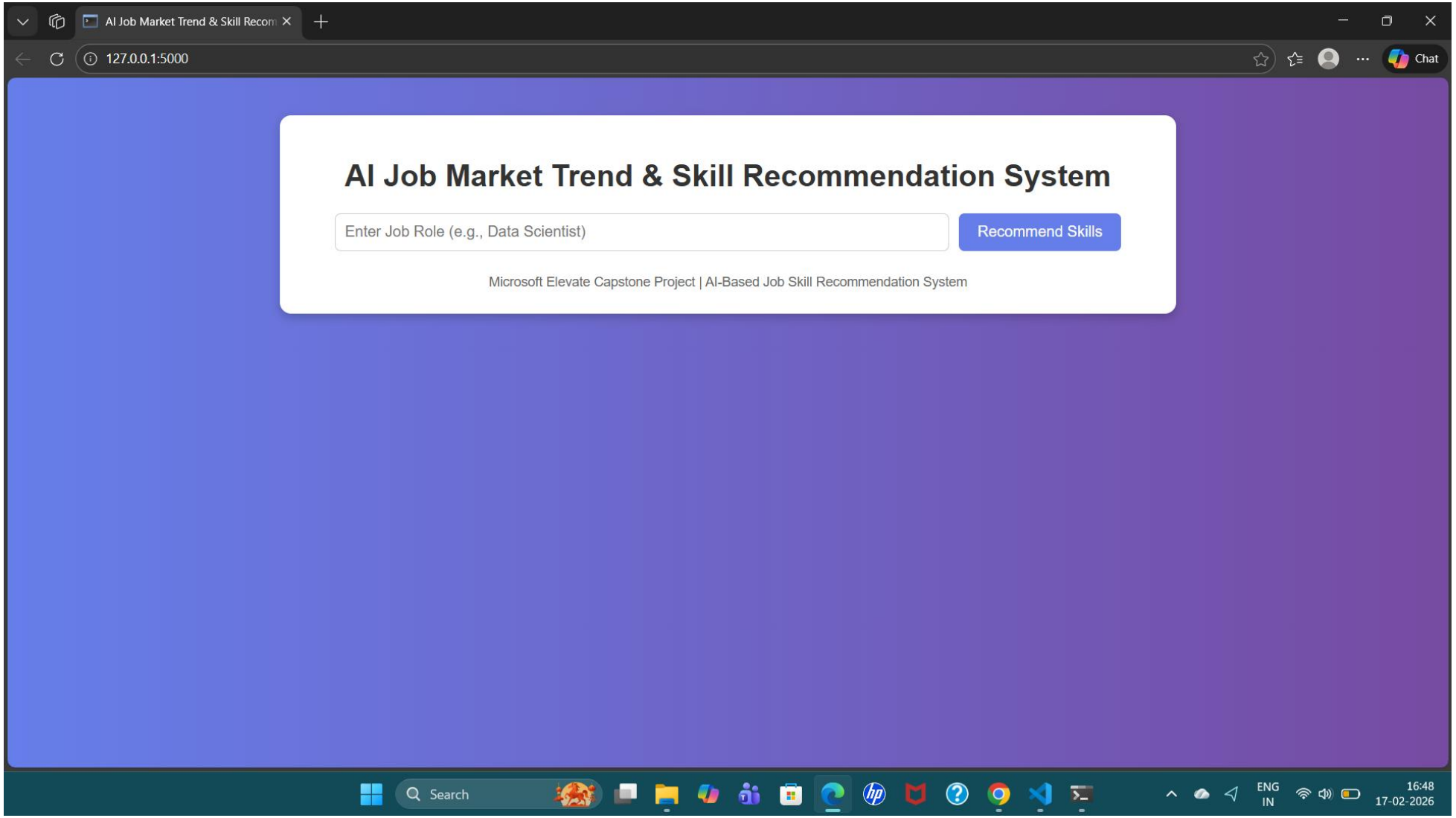
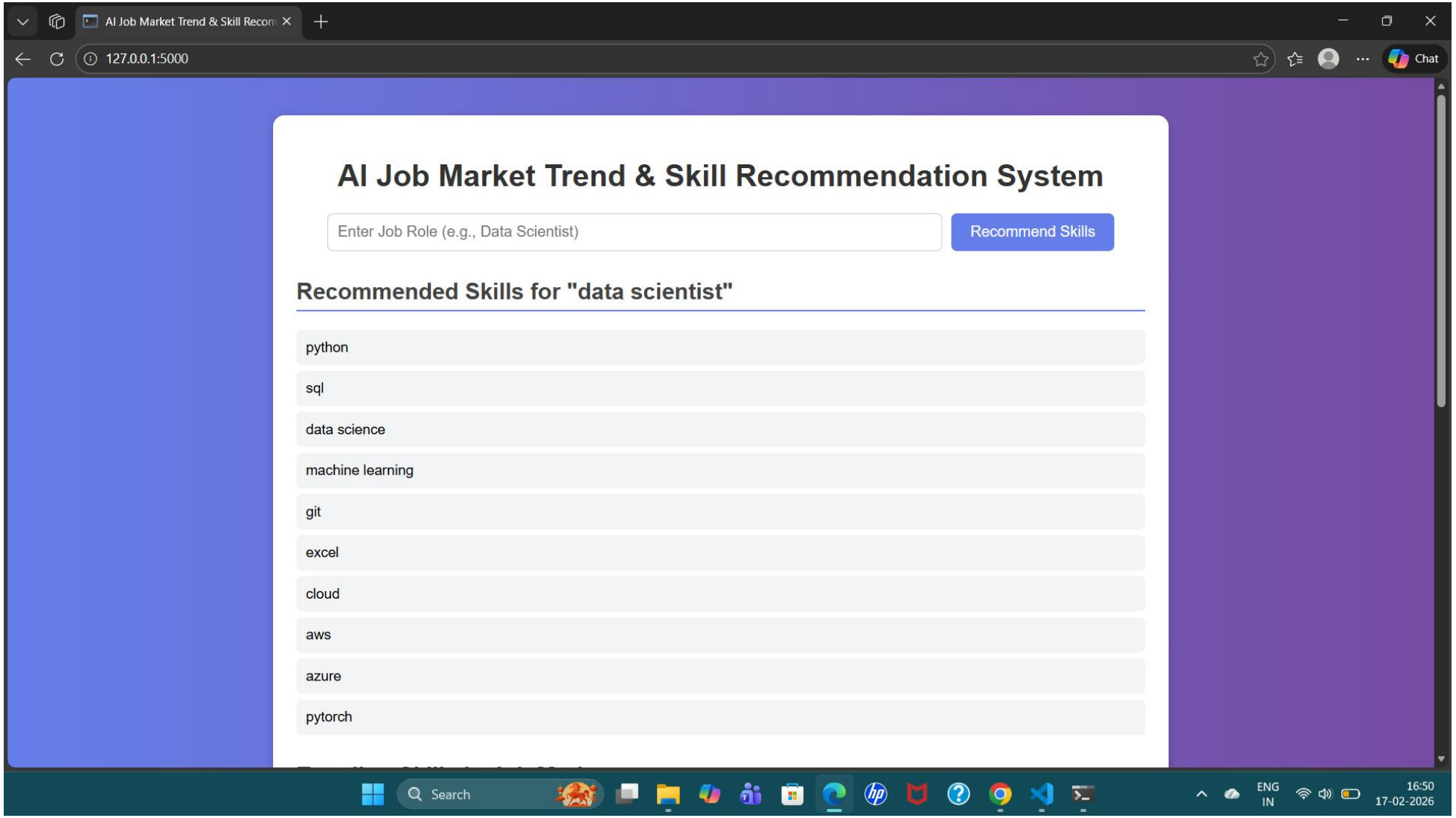
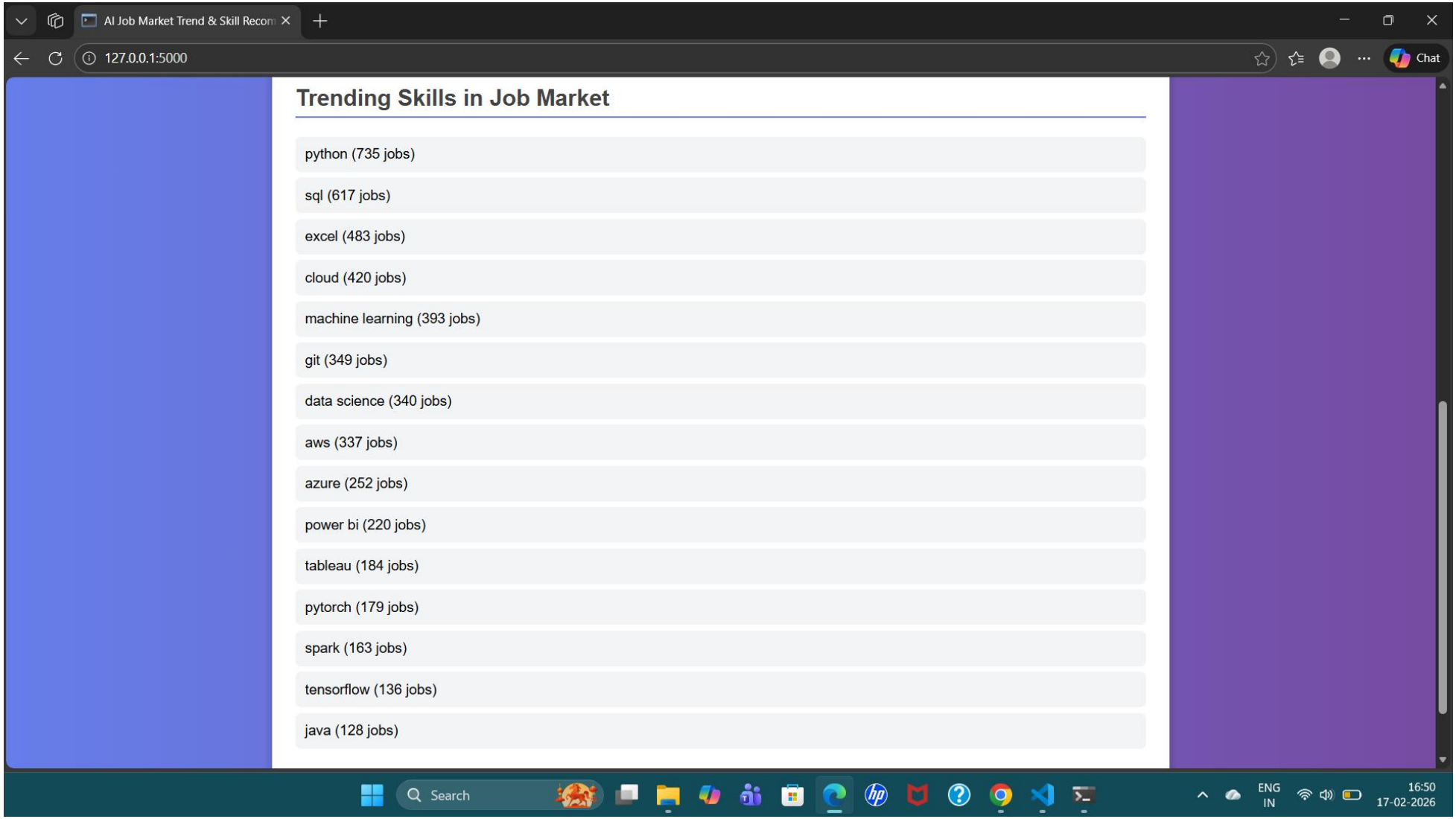
Cell 6 of 8 Go Live


File Edit Selection View Go Run Terminal Help
Search
ai_logic.py
E: > AI job Recommendation Project > ai_logic.py
import pandas as pd
import re
from collections import Counter
def load_data():
df = pd.read_csv('data/linkedin_jobs.csv')
df = df[['posting_title','description']].dropna()
return df
def clean_text(text):
text = text.lower()
text = re.sub(r'[^a-zA-Z\s]', '', text)
return text
skills_list = [
'python','java','c++','sql','machine learning','deep learning','data science',
'artificial intelligence','tensorflow','pytorch','nlp','power bi','tableau',
'excel','aws','azure','cloud','devops','docker','kubernetes','react','node',
'html','css','javascript','flask','django','git','linux','spark','hadoop'
]
def extract_skills(text):
extracted = []
for skill in skills_list:
if skill in text:
extracted.append(skill)
return extracted
def get_trending_skills():
df = load_data()
df['clean_desc'] = df['description'].apply(clean_text)
df['skills'] = df['clean_desc'].apply(extract_skills)
all_skills = [skill for sublist in df['skills'] for skill in sublist]
skill_counts = Counter(all_skills)
return skill_counts.most_common(15)
def recommend_by_role(role):
role = role.lower()
df = load_data()
matched_jobs = df[df['posting_title'].str.lower().str.contains(role)]
0 0
Ln 27, Col 58 Spaces: 4 UTF-8 CRLF Python Go Live


AI Job Market Trend & Skill Recom
127.0.0.1:5000
Chat
AI Job Market Trend & Skill Recommendation System
Enter Job Role (e.g., Data Scientist)
Recommend Skills
Microsoft Elevate Capstone Project | AI-Based Job Skill Recommendation System
Search
ENG
IN
16:48
17-02-2026


AI Job Market Trend & Skill Recom
127.0.0.1:5000
Chat
AI Job Market Trend & Skill Recommendation System
Enter Job Role (e.g., Data Scientist)
Recommend Skills
Recommended Skills for "data scientist"
python
sql
data science
machine learning
git
excel
cloud
aws
azure
pytorch
Search
ENG
IN
16:50
17-02-2026


AI Job Market Trend & Skill Recom
127.0.0.1:5000
Chat
Trending Skills in Job Market
python (735 jobs)
sql (617 jobs)
excel (483 jobs)
cloud (420 jobs)
machine learning (393 jobs)
git (349 jobs)
data science (340 jobs)
aws (337 jobs)
azure (252 jobs)
power bi (220 jobs)
tableau (184 jobs)
pytorch (179 jobs)
spark (163 jobs)
tensorflow (136 jobs)
java (128 jobs)
Search
ENG
IN
16:50
17-02-2026