import pandas as pd

import re

# Load the resumes and job requirements into pandas dataframes

resumes = pd.read\_csv('resumes.csv')

job\_requirements = pd.read\_csv('job\_requirements.csv')

# Define the skills and keywords to look for in the resumes

skills = ['python', 'sql', 'machine learning', 'data analysis', 'statistics']

keywords = ['data scientist', 'data analysis', 'machine learning', 'statistics']

# Define a function to score each resume based on the number of matching skills and keywords

def score\_resume(resume\_text):

# Convert the resume text to lowercase

resume\_text = resume\_text.lower()

# Calculate the number of matching skills and keywords

num\_skills = sum(1 for skill in skills if re.search(skill, resume\_text))

num\_keywords = sum(1 for keyword in keywords if re.search(keyword, resume\_text))

# Return the total score

return num\_skills + num\_keywords

# Apply the scoring function to each resume and add the scores to the dataframe

resumes['score'] = resumes['text'].apply(score\_resume)

# Merge the resumes with the job requirements based on the matching keywords

matches = job\_requirements[job\_requirements['text'].str.contains('|'.join(keywords))]

matched\_resumes = pd.merge(matches, resumes, on='id', how='left')

# Sort the matched resumes by score in descending order

matched\_resumes.sort\_values(by='score', ascending=False, inplace=True)

# Print the top 10 matched resumes with their scores

print(matched\_resumes[['id', 'score', 'text']].head(10))

In this code, we load the resumes and job requirements from CSV files using pandas dataframes. We define a list of skills and keywords to look for in the resumes, and a scoring function that calculates the number of matching skills and keywords in each resume. We apply the scoring function to each resume and add the scores to the dataframe. We then merge the resumes with the job requirements based on the matching keywords, and sort the matched resumes by score in descending order. Finally, we print the top 10 matched resumes with their scores.

Note that this is just an example and can be modified according to your specific needs and preferences.

<https://towardsdatascience.com/resume-screening-with-python-1dea360be49b>