

Unlock your Potential

with

“bharat intern”

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Question1 Resume Parser:

Create an AI to find the correct canditdate for the job by using NLTK and some words. Use only Jupyter notebook code.

import nltk

from nltk.corpus import stopwords

# Download the stopwords corpus if not already downloaded

nltk.download('stopwords')

def parse\_resume(resume\_text, job\_keywords):

    # Tokenize the resume text into individual words

    resume\_tokens = nltk.word\_tokenize(resume\_text.lower())

    # Remove stopwords from the resume tokens

    stop\_words = set(stopwords.words('english'))

    filtered\_tokens = [token for token in resume\_tokens if token.isalpha() and token not in stop\_words]

    # Count the number of occurrences of each keyword in the resume

    keyword\_counts = {keyword: filtered\_tokens.count(keyword) for keyword in job\_keywords}

    # Find the candidate with the highest keyword count

    best\_candidate = max(keyword\_counts, key=keyword\_counts.get)

    return best\_candidate

# Example usage

resume = '''

John Doe

Software Engineer

Skills:

- Python

- Java

- Machine Learning

- Web Development

Experience:

- Software Engineer at XYZ Inc.

Education:

- Bachelor's Degree in Computer Science

'''

job\_keywords = ['python', 'machine learning', 'web development']

best\_candidate = parse\_resume(resume, job\_keywords)

print("Best candidate:", best\_candidate)

**Question2 Auto Correct Tool :**

In this task the AI must correct the word or give the word which is nearest to it.Use only Jupyter notebook code.

import difflib

# Dictionary of known words

dictionary = ["apple", "banana", "cherry", "orange", "pear","right"]

# Function to perform auto-correction

def autocorrect(word):

    corrected\_word = difflib.get\_close\_matches(word, dictionary, n=1)

    if corrected\_word:

        return corrected\_word[0]

    else:

        return None

# Example usage

input\_word = ""

corrected\_word = autocorrect(input\_word)

if corrected\_word:

    print(f"Input: {input\_word}")

    print(f"Auto-corrected: {corrected\_word}")

else:

    print("No auto-correction available.")

**Question 3 Translator App**:

You have to create a translator AI which translate between any two languages. Its upon you to choose language.

#-----------Task-3----------

#-------TRANSLATOR APP------

from tkinter import \*

from tkinter import ttk

from googletrans import Translator,LANGUAGES

root =Tk()

root.geometry('1100x320')

root.resizable(0,0)

root['bg']='skyblue'

root.title('Language translator by Shreya Singh')

Label(root,text="Language Translator" ,font = "Arial 20 bold",border='2',relief="solid").pack()

Label(root,text="Enter Text" ,font ='arial 13 bold' ,bg='white smoke',border='1',relief="solid").place(x=165, y=90)

Input\_text=Entry(root,width=60)

Input\_text.place(x=30,y=130)

Input\_text.get()

Label(root,text="output" ,font ='arial 13 bold', bg='white smoke',border='1',relief="solid").place(x=780,y=90)

Output\_text=Text(root,font='arial 10',height=5,wrap=WORD,padx=5,pady=5,width=50)

Output\_text.place(x=600,y=130)

language= list(LANGUAGES.values())

dest\_lang= ttk.Combobox(root,values=language,width=22)

dest\_lang.place(x=130,y=180)

dest\_lang.set('choose language')

def Translate():

    translator= Translator()

    translated= translator.translate(text=Input\_text.get(), dest= dest\_lang.get())

    Output\_text.delete(1.0, END)

    Output\_text.insert(END, translated.text)

trans\_btn=Button(root,text='Translate',font='arial 12 bold', pady=5, command=Translate,bg='orange',activebackground='green')

trans\_btn.place(x=445,y=180)

root.mainloop()