

PROJECT REPORT  
On  
**“English to Hindi Translator”**

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

SESSION 2021-2022

**CERTIFICATE**

This is to certify that the Project titled “**English to Hindi Translator**” is a bonafide work of **Pankaj C. Tembhurnikar** carried out for the partial fulfillment of the requirement for the award of Degree of Bachelor of Engineering in **Computer Science & Engineering**.

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# **CHAPTER 1**

## **INTRODUCTION**

### **1.1 PROJECT BACKGROUND**

At some point, you must have tried Google Translate to translate some text from one language to the other. But, do you know how Google does that? Well, Google developers have created an API that does it all.

To translate the text from English language to Hindi using Python, we are going to use a package named `englist-to-hindi` that has been called internally to the Google Translate API. However, we do not need to worry about the internal calling of the API; instead, we can go ahead and directly use the package.

### **1.2 PROBLEM STATEMENT**

A Translator Or Language Translation Program Is A Software Application Or Service That Translates Text Or Speech From One Language To Another.

The Internet And Globalization Have Started An Increased Need For Translation Services. More Companies Today Have To Deal With The Global Community, Which Results In The Creation Of Additional Digital Documents In Various Languages. Most Of These Documents Are Legal In Nature. Corporate Documents And Company Websites Contain Privacy Rules, Service Contracts, Terms Of Use And Licenses. All Of Them Use Legal Phraseology That Should Be Translated In Many Languages To Ensure The Complete Comprehension Of Target Audiences.

### **1.3 PURPOSE OF STUDY**

Digital Technology And Legal Translation Benefit From Working Together. Digital Technology Created Translation Memory Tools, Online Databases And Corpora, Cloud-Based Workspaces And Machine Translation Tools. Technology Makes Their Work More Time-Efficient And Effective And The Use Of These Modern Technologies Helps Developers Create Better And More Responsive Translation Tools.

## CHAPTER 2

### METHODOLOGY

#### 2.1 PROPOSED WORD

Googletrans Is A Free And Unlimited Python Library That Implemented Google Translate API. This Uses The Google Translate Ajax API To MakeCalls To Such Methods As Detect And Translate.

We Are Going To Write Python Scripts To Translate English Word To HindiWord And Bind It WithThe GUI Application. We Are Using The English-To-Hindi Module To Translate The EnglishWordTo The Hindi Word.

Step to build the English to Hindi Translator python project:Import Required Modules

Create a Display Window

Create input and output text widgetDefine

functionCreate a Show button

##### 1. Import Modules

```
fromtkinter import *
```

```
from englisttohindi.englisttohindi import EngtoHindifrom googletans import  
LANGUAGES
```

We Use Tkinter , EngtoHindi and LANGUAGES from googletans

##### 2. Define Function

```
def
```

```
eng_to_hindi():
```

```
trans = EngtoHindi(str(e.get())) res
```

```
=trans.convert result.set(res)
```

The Translation function will translate the input given and give theoutput.master = Tk()

```
master.configure(bg = 'light
```

```
grey')
```

This Will give the Tkinter the layout. result =

```
StringVar()
```

```
Label(master, text="Enter Text : " , bg = "light grey").grid(row = 0,sticky = W)
```

```
Label(master, text="Result :", bg = "light grey").grid(row = 3, sticky
```

```
= W)
```

```
Label(master, text="", textvariable=result,bg = "light grey").grid(row
```

= 3,

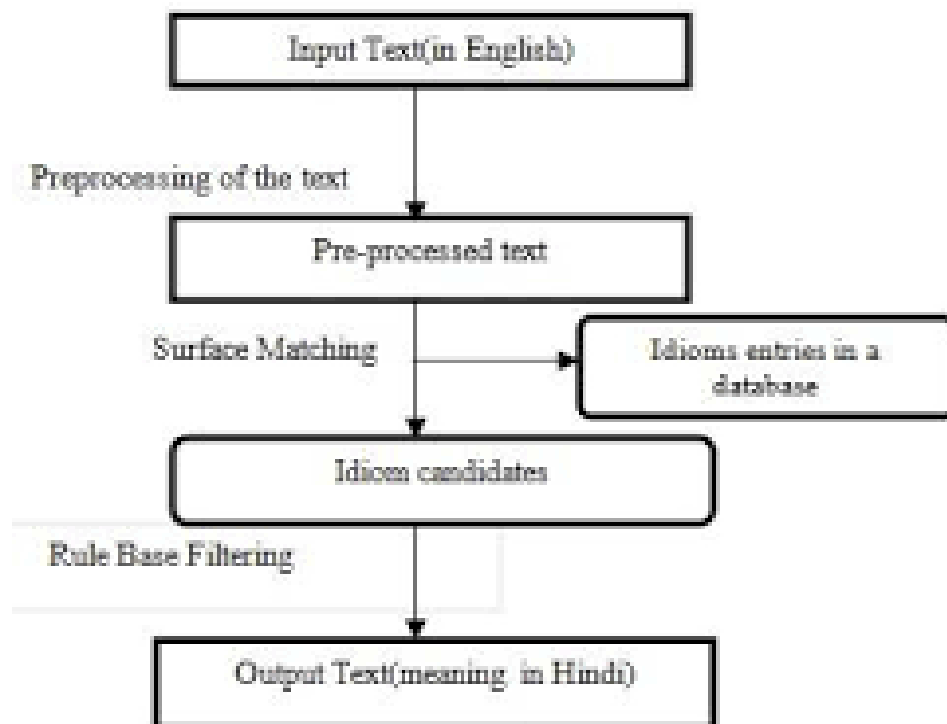
column =  
1,sticky  
= W)

```
e = Entry(master, width = 100)e.grid(row  
= 0, column = 1)  
b = Button(master, text = "Show", command = eng_to_hindi, bg ="Blue")  
b.grid(row = 0, column = 2, columnspan = 2, rowspan = 2, padx = 2,  
pady = 15,)  
mainloop()
```

The mainloop will run until the user stops and closes the translation window.

## 2.2 SYSTEM ARCHITECTURE :

The following architecture shows the working of the English to Hindi Translation Project.



**Fig. 2.2.1** System Architecture

## CHAPTER 3

### TOOLS/PLATFORMS

#### 3.1 SOFTWARE REQUIREMENT

- **LANGUAGE:** Python3.10.5
- **Library :** Tkinter, englistto hindi
- **IDE :** VScode
- **OPERATING SYSTEM:** Windows

englistto hindi Is A Free And Unlimited Python Library That Implemented Google Translate API. This Uses The Google Translate Ajax API To Make Calls To Such Methods As Detect And Translate.

The Tkinter Package (“Tk Interface”) Is The Standard Python Interface To The Tcl/Tk GUI Toolkit. Available On Most Unix Platforms, Including MacOS, As Well As On Windows System

An integrated development environment (IDE) is a feature-rich program that supports many aspects of software development. The Visual Studio IDE is a creative launching pad that you can use to edit, debug, and build code, and then publish an app.

A window is a separate viewing area on a computer display screen in a system that allows multiple viewing areas as part of a graphical user interface ( GUI ).



## CHAPTER 4

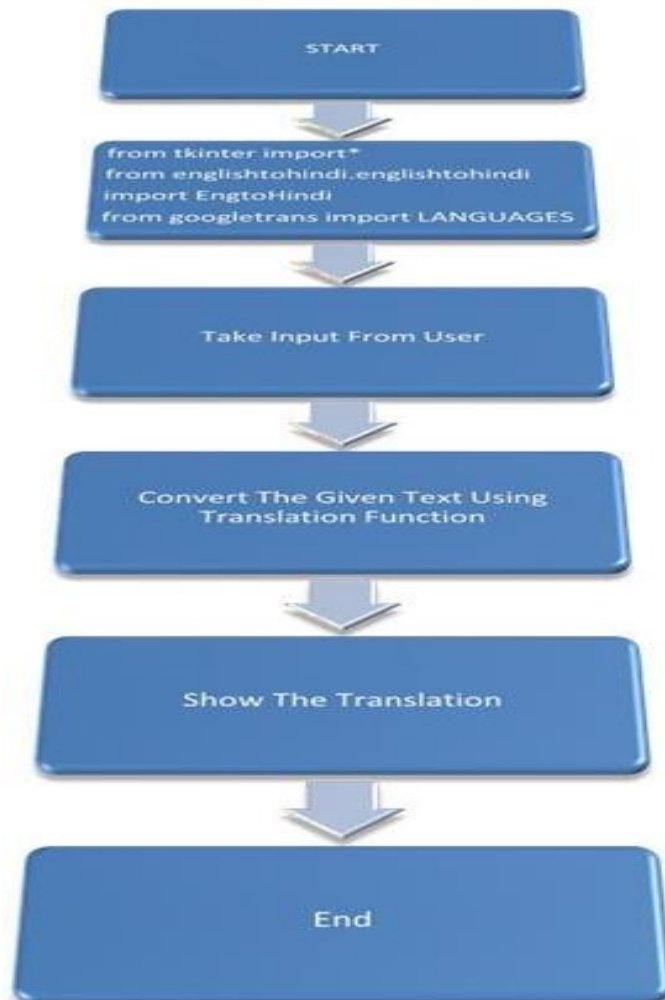
### DESIGN & IMPLEMENTATION

#### 4.1 ALGORITHM

##### STEP TO BUILD THE TEXT TRANSLATOR PYTHON PROJECT

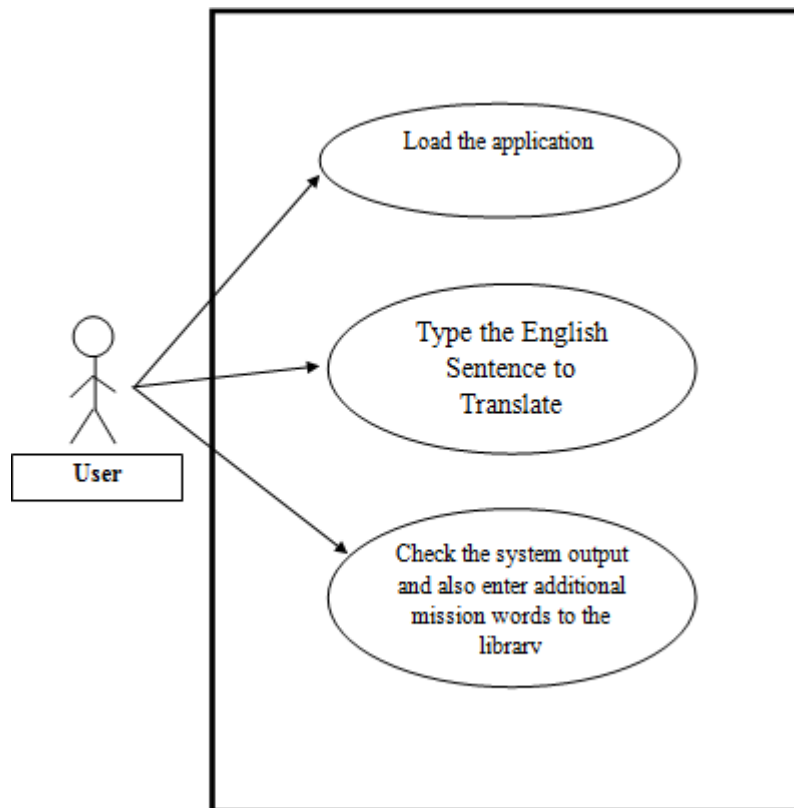
- Step 1 : Import Required Modules
- Step 2 : Take Input From User
- Step 3 : Convert The Given Text Using Translation Function
- Step 4 : Show The Translation
- Step 5 : End

#### 4.1 FLOWCHART



**Fig.4.2.1** Flowchart

### 4.3 -CASE DIAGRAM :



**Fig.4.2.2** Case Diagram

USE-CASE DIAGRAM Have The Task That Will Be Performed By Users. Enter The Text, ClickOn Show Button For Translation, Get The TranslatedText.

### 4.4 SOURCECODE

```
from tkinter import *
import pyttsx3
from englisttohindi.englisttohindi import EngtoHindi

engine=pyttsx3.init()
```

```

voices = engine.getProperty('voices')
engine.setProperty('voice', voices[1].id)

engine.say('Hey Nobita, please enter the text ')
engine.runAndWait()

def eng_to_hindi():

    trans =
    EngtoHindi(str(e.get()))res =
    trans.convert result.set(res)
master = Tk()
master.configure(bg='light
grey')
result = StringVar()

Label(master, text="Enter text : ", bg="light grey").grid(row=0,
sticky=W)Label(master, text="Result : ", bg="light grey").grid(row=3,
sticky=W)
Label(master, text="", textvariable=result, bg="light grey").grid(row=3,

                                column=1,
                                sticky=W)

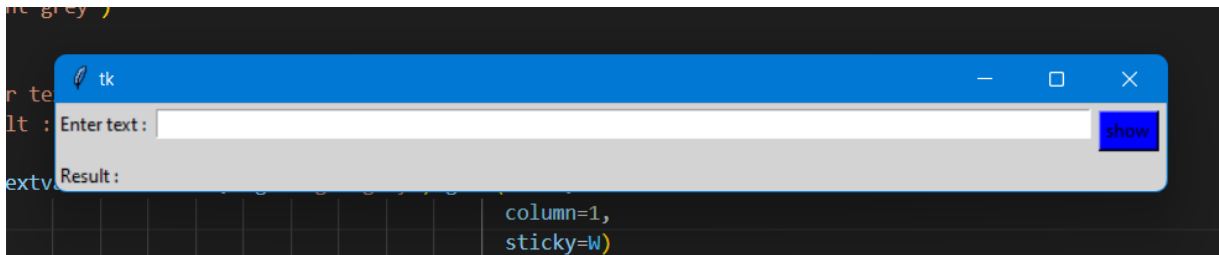
e = Entry(master,
width=100)e.grid(row=0,
column=1)
b = Button(master, text="show", command=eng_to_hindi, bg="blue")
b.grid(row=0, column=2, columnspan=2, rowspan=2, padx=5,
pady=5)mainloop()

```

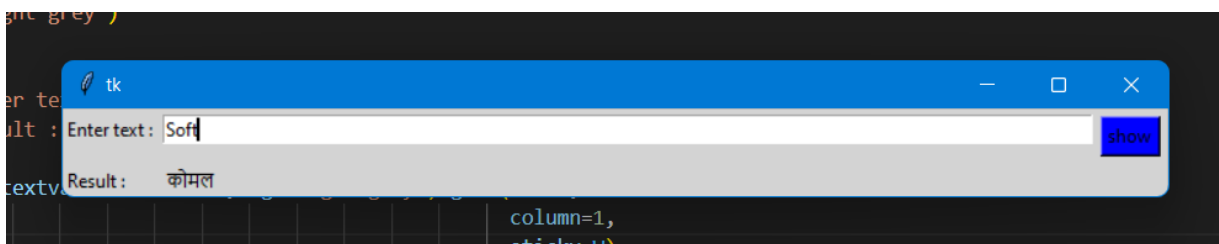
## CHAPTER 5

### RESULT & DISCUSSION

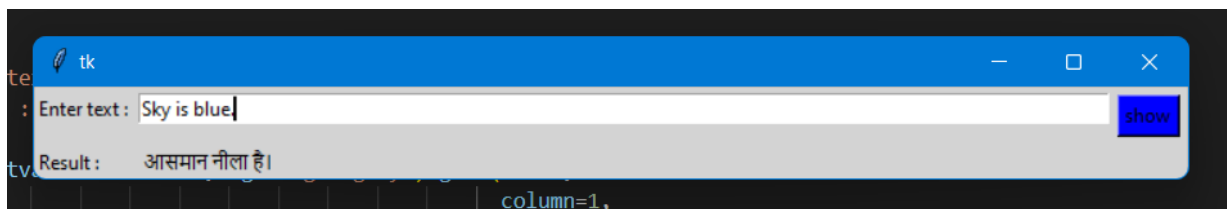
#### 5.1 OUTPUT



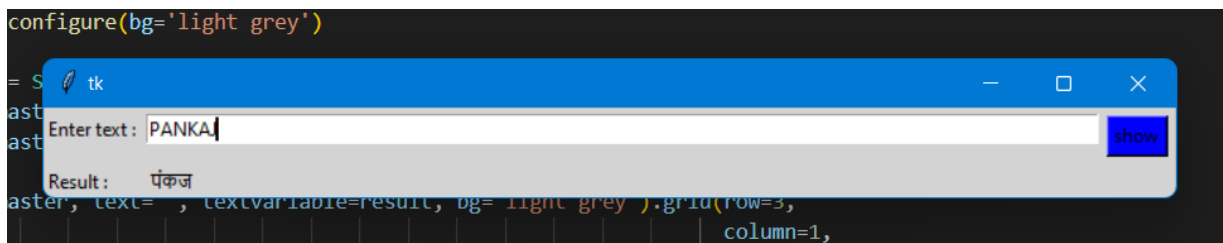
**Fig.5.1.1** Frame window



**Fig.5.1.2** Result window



**Fig.5.1.3** Result window



**Fig.5.1.4** Result window

## 5.3 DISCUSSION

In fig. 5.1.1 we have shown the window in which you can see the one input block , and there is also a button for implement these program as show, and one is the output block. When we input any English word or sentence in first block then we will get a output as a hindi translation of this word or sentence.

In fig. 5.1.2 we will see the example of these, we have take a English word soft as a input and click on the show button for output and we will get a output as a कोमल.

In fig. 5.1.3 we will take a one sentence sky is blue as a input and click on the show button to get a output as a आसमान नीला है.

In fig. 5.1.4 we will take a one name PANKAJ and click on the show button and we will get a output as a पंकज.

## 5.4 APPLICATION

### 1. Bridging The Linguistic Barriers Between Countries

When You're Talking To People From Another Country Whose Language You Don't Understand, It Helps To Have Someone On One Hand Who Can Act As An Interpreter. Language Translators Are Trained To Speak And Translate From One Language To Another Fluently, And With Ease. If They're Well-Qualified, You Can Be Assured That Your Messages Will Be Properly Interpreted And Won't Suffer From Any Accidental Mis-Communications. Improved Communication And Exchange Of Ideas

### 2. Language Translation Services Provide Different Parties With The Ability To Communicate And Share Ideas Without A Language Barrier. Through Translation, You Can Easily Explain Complex Subject Matters To Another Person In Their Native Tongue.

### 3. Building Strong Relationships

The Study Of Language Translation Teaches How People Make Meaning From The Things They Read Or Hear. As An Entrepreneur, You Need To Build Relationships With Your Global Clients By Personalizing Your Messages For Each Of Them, In A Way That Feels Personally Relevant To Their Life And Culture.

## **CHAPTER 6**

### **CONCLUSION**

We Have Successfully Developed Python Language Translator Project With Translate And Tkinter. We have designed and developed a Smart Status Notifier by applying engineering knowledge which provides an approach in building a device where users can get availability directly from authority figures. It solved the critical problem of society by saving lots of time.

We have identified and analyse problem in current situation where staff people leave their office for various reasons they have no way of updating their status that is when they would be available at their office, hence we found the solution by developing

English to hindi translator , in which they can directly update their availability through our webapp which will be displayed on LCD outside their office room.

We have used modern tools like tkinter, englistto hindi, pytsx3 to implement this project. During the development of the project we have applied professional ethics While showcasing our project through various seminars ,we enhanced our communication skills and displayed professional ethics which results in lifelong learning

## REFERENCE

<https://www.geeksforgeeks.org/build-an-application-to-translate-english-to-hindi-in-python/>

<https://stackabuse.com/text-translation-with-google-translate-api-in-python/>

<https://www.guru.com/blog/the-advantages-and-disadvantages-of-a-language-translator/>

## **Notes:**

- 1. Chapter Title** – Front size = 16, Front Type = Times New Roman, Alignment = Centered,Bold.  
(Example – INTRODUCTION)
- 2. Heading** – Front size = 14, Front Type = Times New Roman, Alignment = Left, Bold.(Example  
– 4.1 ALGORITHM)
- 3. Sub Heading** - Front size = 12, Front Type = Times New Roman, Alignment = Left, Bold.(Example  
– Module)
- 4. Content** - Front size = 12, Front Type = Times New Roman, Alignment = Left.(Example  
– Write down proper information about you project)
- 5. Figure** – Give proper name to your figure and screenshot.

Front size = 12, Front Type = Times New Roman, Alignment = Centered.

Fig. Chapter no. name of figure/screenshot (Example –  
Fig. 4 Flowchart of Tic-Tac-T)