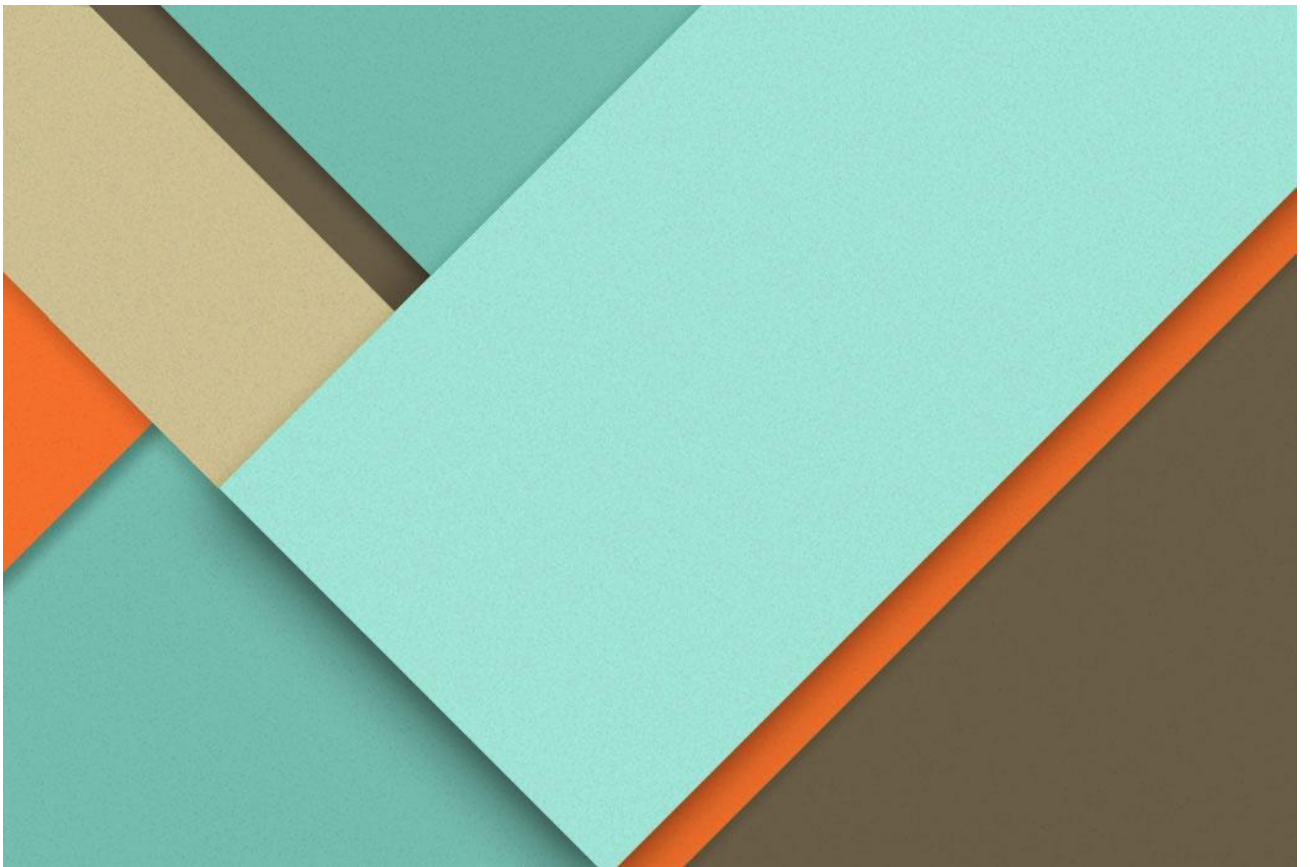


PROJECT OVERVIEW



Project Name

Create a chatbot in Python

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Overview

Creating a chatbot in Python involves several steps, and it's important to decide on the chatbot's purpose and functionality before starting. Here's a high-level overview of the process:

1 . Define the Purpose

Determine what your chatbot will do (e.g., answer questions, provide recommendations, simulate conversation).

2 . Choose a Framework or Library:

You can use libraries like NLTK, spaCy, or frameworks like Rasa or ChatterBot to simplify the development.

3 . Data Collection and Preprocessing:

Gather and preprocess the data your chatbot will use for training or responses.

3 . Natural Language Processing (NLP):

Implement NLP techniques for tasks like tokenization, part-of-speech tagging, and named entity recognition.

4 . Training (if applicable):

If your chatbot uses machine learning, train your model with relevant datasets.

Dialog Management:

Implement logic for managing conversations, tracking context, and handling user inputs.

5 . User Interface:

Decide on the user interface (e.g., command-line, web interface) for users to interact with

6 . Integration with External Services (if needed):

If your chatbot needs to fetch data from external sources or APIs, implement these integrations.

Program

```
import numpy as np # linear algebra

import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)

import os

for dirname, _, filenames in os.walk('/kaggle/input'):

    for filename in filenames:

        print(os.path.join(dirname, filename))


import re

from nltk.corpus import stopwords

import tensorflow as tf

from tensorflow import keras

from keras.preprocessing.text import Tokenizer

from keras.preprocessing.sequence import pad_sequences


import matplotlib.pyplot as plt

import seaborn as sns

sns.set_style("whitegrid")


from keras.layers import Input,Embedding,Bidirectional,LSTM,Dense,Concatenate

from keras.models import Model
```

Output

question answer

0 hi, how are you doing? i'm fine. how about yourself?

1 i'm fine. how about yourself? i'm pretty good. thanks for asking.

2 i'm pretty good. thanks for asking. no problem. so how have you been?

3 no problem. so how have you been? i've been great. what about you?

4 i've been great. what about you? i've been good. i'm in school right now.