

Part2 – –Que1.

Check if the sentence is Grammatically correct:

- Please use any pre-trained model or use text from open datasets.
- Once done, please evaluate the English Grammar in the text column of the below dataset.
- [DataSet Link \(https://drive.google.com/file/d/1LTl5KNqPrtxYRgJk2Axl30KgYyNcRpD/view\)](https://drive.google.com/file/d/1LTl5KNqPrtxYRgJk2Axl30KgYyNcRpD/view)

Import Required Libraries :

```
# install language-tool-python
pip install language-tool-python
```

For more info click - [language-tool-python \(https://pypi.org/project/language-tool-python/\)](https://pypi.org/project/language-tool-python/).

```
In [1]: import numpy as np
import pandas as pd

import language_tool_python
tool = language_tool_python.LanguageTool('en-US') # Language English-US
```

Load Data :

```
In [2]: data = pd.read_csv('data/review_data.csv', nrows=500)
data.head(2)
```

```
Out[2]:
```

	text	star	app_id	reviewDate
0	Anathi Khanyile	5	com.fingersoft.hillclimb	18/03/21
1	Tony bahut funny hai Hill climbing racing my f...	5	com.fingersoft.hillclimb	18/03/21

text column

```
In [3]: df = data[['text']]

# check missing values
df.isnull().sum()
```

```
Out[3]: text    0
dtype: int64
```

Check – Grammatical Correct or not :

```
In [5]: # tool.check() : to generate the list of error rules matches

try:
    df = df.assign(Grammatical_Status = ['Incorrect' if len(tool.check(rows))>0 else 'Correct' for rows in df.text])
except Exception as e:
    print('Error: ', e)
```

```
In [6]: df.head()
```

```
Out[6]:
```

	text	Grammatical_Status
0	Anathi Khanyile	Incorrect
1	Tony bahut funny hai Hill climbing racing my f...	Incorrect
2	Teturwu	Incorrect
3	Hoooooooooooooooooyaaaaaaaaa what a game hoooooooooooo...	Incorrect
4	This game is nice	Correct

Fix – Grammatical incorrect :

```
In [7]: # tool.correct() : to correct the error rules matches

try:
    df = df.assign(Corrected = [tool.correct(rows) for rows in df.text])
except Exception as e:
    print('Error: ', e)
```

```
In [8]: df.head()
```

Out[8]:

	text	Grammatical_Status	Corrected
0	Anathi Khanyile	Incorrect	Anti Handle
1	Tony bahut funny hai Hill climbing racing my f...	Incorrect	Tony Beirut funny HAI Hill climbing racing my ...
2	Teturwu	Incorrect	Return
3	Hoooooooooooooyaaaaaaaaa what a game hooooooooooo...	Incorrect	Hoooooooooooooyaaaaaaaaa what a game hooooooooooo...
4	This game is nice	Correct	This game is nice

```
In [9]: tool.close()
```