Exploratory Data Analysis DoQA Cooking Training Set Output

```
pip install textatistic
     Requirement already satisfied: textatistic in /usr/local/lib/python3.10/dist-packages (0.0.1)
     Requirement already satisfied: pyhyphen>=2.0.5 in /usr/local/lib/python3.10/dist-packages (from textatistic) (4.
     Requirement already satisfied: wheel>=0.36.0 in /usr/local/lib/python3.10/dist-packages (from pyhyphen>=2.0.5->t
     Requirement already satisfied: setuptools>=52.0 in /usr/local/lib/python3.10/dist-packages (from pyhyphen>=2.0.5
     Requirement already satisfied: appdirs>=1.4.0 in /usr/local/lib/python3.10/dist-packages (from pyhyphen>=2.0.5->
     Requirement already satisfied: requests>=2.25 in /usr/local/lib/python3.10/dist-packages (from pyhyphen>=2.0.5->
     Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from request
     Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests>=2.25->pyh
     Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests>=2.2
     Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests>=2.2
import json
import pandas as pd
from textatistic import Textatistic
from pathlib import Path
import re
with open("/content/doqa-cooking-train-v2.1.json", 'r') as file:
    # Load the JSON data
    json_data = json.load(file)
# Access the 'data' key
data = json_data['data']
# Create lists to store the extracted data
titles = []
backgrounds = []
all_paragraphs = []
for entry in data:
  title = entry["title"]
  background = entry["background"]
  paragraphs = [c["context"] for c in entry["paragraphs"]]
  # Store each variable in separate lists
  titles.append(title)
  backgrounds.append(background)
   all_paragraphs.append(paragraphs)
#three separate lists: titles, backgrounds, and all_paragraphs
title_df = pd.DataFrame({'Title': titles})
background_df = pd.DataFrame({'Background': backgrounds})
paragraphs_df = pd.DataFrame({'Paragraphs': all_paragraphs})
title df = title df['Title'].tolist()
background_df = background_df['Background'].tolist()
paragraphs_df = paragraphs_df['Paragraphs'].tolist()
def clean_string(text): # Cleaning
    """re.sub(pattern, repl, string).
    Returns the string obtained by replacing the leftmost
   non-overlapping occurrences of pattern in string by the
    replacement thus removing any urls
    .....
    return " ".join(re.sub("([^0-9A-Za-z \t])|(\w+:\/\\S+)", "", str(text)).split())
```

```
TextOnlyTitle = [clean_string(Title) for Title in title_df]
TextOnlyBackground = [clean_string(Background) for Background in background_df]
TextOnlyParagraphs = [clean_string(Paragraphs) for Paragraphs in paragraphs_df]

TextOnlyTitle[:2]

['Tips for grilling duck legs', 'Tips for grilling duck legs']

TextOnlyBackground[:2]
```

['I recently attempted to grill duck legs on my propane Webber I was afraid of flareups due to the high fat content in the duck meat so I grilled with somewhat low and indirect heat It took a long time but I got them looking lovely and brown and not burned The only problem was this they were tough and didnt taste very good at all Clearly I did something very wrong Any advice',

'I recently attempted to grill duck legs on my propane Webber I was afraid of flareups due to the high fat content in the duck meat so I grilled with somewhat low and indirect heat It took a long time but I got them looking lovely and brown and not burned The only problem was this they were tough and didnt taste very good at all Clearly I did something very wrong Any advice'

TextOnlyParagraphs[:2]

['I think grilling is probably a bad plan for duck legs the fat content is a real danger like you said and duck legs are tough enough you probably want to confit them or braise themIf you absolutely have to grill them I would suggest confiting them at 200 degrees for three or four hours first you could use veggie oil in a pinch and then resting them in the fridge for a day or so in oil As for finishing them on the grill rinse them off gently reseason if needed cook flesh side down on a medium heat portion of the grill for a while until mostly heated through then flip them over on a high heat portion of the grill to crisp up the skin watching out for flares CANNOTANSWER',

'I think grilling is probably a bad plan for duck legs the fat content is a real danger like you said and duck legs are tough enough you probably want to confit them or braise themIf you absolutely have to grill them I would suggest confiting them at 200 degrees for three or four hours first you could use veggie oil in a pinch and then resting them in the fridge for a day or so in oil As for finishing them on the grill rinse them off gently reseason if needed cook flesh side down on a medium heat portion of the grill for a while until mostly heated through then flip them over on a high heat portion of the grill to crisp up the skin watching out for flares CANNOTANSWER']

Title

```
a_list = TextOnlyTitle

new_list_a = [x for x in a_list if len(x) < 1000]

textfile_a = open("fileA_file.txt", "w")

for element in new_list_a:
    textfile_a.write(element + "\n")

textfile_a.close()

textA = Path('fileA_file.txt').read_text()

a_string = textA

Str_EndFixA = a string.replace("\n", ".")</pre>
```

```
readability = Textatistic(Str_EndFixA)
%precision 3
     '%.3f'
readability.dict()
     {'char_count': 41745,
      'word_count': 7837,
      'sent_count': 1037,
      'sybl_count': 10825,
      'notdalechall_count': 2495,
      'polysyblword_count': 592,
      'flesch_score': 82.309,
      'fleschkincaid_score': 3.656,
      'gunningfog_score': 6.045,
      'smog_score': 7.445,
      'dalechall_score': 9.038}
For Background
b_list = TextOnlyBackground
new_list_b = [x for x in b_list if len(x) < 1000]
textfile_b = open("fileB_file.txt", "w")
for element in new_list_b:
    textfile_b.write(element + "\n")
textfile_b.close()
textB = Path('fileB_file.txt').read_text()
b_string = textB
Str_EndFixB = b_string.replace("\n", ".")
readability = Textatistic(Str_EndFixB)
%precision 3
     '%.3f'
readability.dict()
     {'char_count': 311414,
      'word_count': 70743,
      'sent_count': 959,
      'sybl_count': 89969,
      'notdalechall_count': 14199,
      'polysyblword_count': 3662,
      'flesch_score': 24.369,
      'fleschkincaid_score': 28.186,
      'gunningfog_score': 31.578,
```

```
'smog_score': 14.292,
      'dalechall_score': 10.465}
For Paragraph
p_list = TextOnlyParagraphs
new_list_p = [x for x in p_list if len(x) < 1000]
textfile_p = open("fileP_file.txt", "w")
for element in new_list_p:
    textfile_p.write(element + "\n")
textfile_p.close()
textP = Path('fileP_file.txt').read_text()
p_string = textP
Str_EndFixP = p_string.replace("\n", ".")
readability = Textatistic(Str_EndFixP)
%precision 3
     '%.3f'
readability.dict()
     {'char_count': 414674,
      'word_count': 91628,
      'sent_count': 902,
      'sybl_count': 117064,
      'notdalechall_count': 18964,
      'polysyblword_count': 5174,
      'flesch_score': -4.357,
      'fleschkincaid_score': 39.103,
      'gunningfog_score': 42.892,
      'smog_score': 16.811,
```

'dalechall_score': 11.943}