

week2-immigration

October 21, 2023

IMMIGRATION:

FOR CLEANING DATA ABOUT VISA

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[3]: import pandas as pd
import re

# Define a function to perform the data cleaning tasks
def clean_text(text):
    # Convert to lowercase
    text = text.lower()
    # Remove links (URLs)
    text = re.sub(r'http\S+', '', text)

    # Remove punctuation and symbols
    text = re.sub(r'[\W\s]', ' ', text)

    # Remove @user mentions
    text = re.sub(r'@\w+', '', text)

    # Remove hashtags
    text = re.sub(r'#\w+', '', text)

    return text

# Load the data from an Excel file
file_path = "/Users/harshith/Downloads/WEEK2/Immigration/visa.csv"
df = pd.read_csv(file_path)

# Apply the cleaning function to the specified column
df['full_text'] = df['full_text'].apply(clean_text)
# Remove duplicates
df.drop_duplicates(subset=['full_text'], inplace=True)

# Remove rows with null values
df.dropna(subset=['full_text'], inplace=True)
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# Save the cleaned data back to a new Excel file
cleaned_file_path = "/Users/harshith/Desktop/untitled folder 3/immigration/visa.
↳CSV"
df.to_csv(cleaned_file_path, index=False)

print(f"Cleaned data saved to {cleaned_file_path}")

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Cleaned data saved to /Users/harshith/Desktop/untitled folder
3/immigration/visa.csv

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[5]: import pandas as pd
import re

# Define a function to perform the data cleaning tasks
def clean_text(text):
    # Convert to lowercase
    text = text.lower()
    # Remove links (URLs)
    text = re.sub(r'http\S+', '', text)

    # Remove punctuation and symbols
    text = re.sub(r'[\W\s]', ' ', text)

    # Remove @user mentions
    text = re.sub(r'@\w+', '', text)

    # Remove hashtags
    text = re.sub(r'#\w+', '', text)

    return text

# Load the data from an Excel file
file_path = "/Users/harshith/Downloads/WEEK2/Immigration/passport.csv"
df = pd.read_csv(file_path)

# Apply the cleaning function to the specified column
df['full_text'] = df['full_text'].apply(clean_text)
# Remove duplicates
df.drop_duplicates(subset=['full_text'], inplace=True)

# Remove rows with null values
df.dropna(subset=['full_text'], inplace=True)

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# Save the cleaned data back to a new Excel file
cleaned_file_path = "/Users/harshith/Desktop/untitled folder 3/immigration/
↳passport.csv"
df.to_csv(cleaned_file_path, index=False)

print(f"Cleaned data saved to {cleaned_file_path}")

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Cleaned data saved to /Users/harshith/Desktop/untitled folder
3/immigration/passport.csv

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[6]: import pandas as pd
import re

# Define a function to perform the data cleaning tasks
def clean_text(text):
    # Convert to lowercase
    text = text.lower()
    # Remove links (URLs)
    text = re.sub(r'http\S+', '', text)

    # Remove punctuation and symbols
    text = re.sub(r'[\W\s]', ' ', text)

    # Remove @user mentions
    text = re.sub(r'@\w+', '', text)

    # Remove hashtags
    text = re.sub(r'#\w+', '', text)

    return text

# Load the data from an Excel file
file_path = "/Users/harshith/Downloads/WEEK2/Immigration/security check.csv"
df = pd.read_csv(file_path)

# Apply the cleaning function to the specified column
df['full_text'] = df['full_text'].apply(clean_text)
# Remove duplicates
df.drop_duplicates(subset=['full_text'], inplace=True)

# Remove rows with null values
df.dropna(subset=['full_text'], inplace=True)

# Save the cleaned data back to a new Excel file

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cleaned_file_path = "/Users/harshith/Desktop/untitled folder 3/immigration/  
↳security.csv"  
df.to_csv(cleaned_file_path, index=False)  
  
print(f"CleaneD data saved to {cleaned_file_path}")
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CleaneD data saved to /Users/harshith/Desktop/untitled folder
3/immigration/security.csv

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