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In [1]: import pandas as pd
import re
import random

# Read the text file
with open("Frankenstein; Or, The Modern Prometheus by Mary Wollstonecraft Shelley.txt", 'r', encoding='utf-8') as file:
    text = file.read()

# Remove headers, footers, and page numbers
text = re.sub(r'\n{2,}', '\n', text) # Remove extra newlines
text = re.sub(r'\n\n.*\n\n', '\n', text) # Remove headers and footers
text = re.sub(r'\b\d+\b', '', text) # Remove page numbers

# Clean the text file
text = re.sub(r'^\x00-\x7F+', '', text) # Remove non-ASCII characters
text = re.sub(r'â€œ|â€™', '', text) # Remove specific unwanted characters

# Split the text data into partitions containing 150 words in each partition
words = re.findall(r'\b\w+\b', text)
partitions = [words[i:i+150] for i in range(0, len(words), 150)]

# Randomize the partitions and select only 50 partitions
random.seed(42) # Seed number for reproducibility
selected_partitions = random.sample(partitions, 50)

# Save the 50 partitions to a CSV file with a column for Petition ID, Text, and Word Count
data = []
for i, partition in enumerate(selected_partitions):
    data.append([i+1, ' '.join(partition), len(partition)])

df = pd.DataFrame(data, columns=['Petition ID', 'Text', 'Word Count'])
df.to_csv('selected_partitions.csv', index=False)
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In [ ]: