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from wordcloud import WordCloud
import matplotlib.pyplot as plt

def generate_wordcloud(text):
    # Generate the WordCloud
    wordcloud = WordCloud(width=800, height=400, background_color='white').generate(text)

    # Display the WordCloud image
    plt.figure(figsize=(10, 5))
    plt.imshow(wordcloud, interpolation='bilinear')
    plt.axis('off') # Remove the axis
    plt.show()

    # Save the WordCloud image
    wordcloud.to_file('wordcloud_image.png')

# Input text
text = 'data science machine learning artificial intelligence'

# Generate and save the WordCloud
generate_wordcloud(text)
```

