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In [ ]:
         import nltk
         from gensim.models import Word2Vec
         from nltk.corpus import stopwords
         import re
In [ ]:
         f = open('Text 1.txt', 'r')
         paragraph = f.read()
         print(paragraph)
         f.close()
In [ ]:
        # Preprocessing the data
         text = re.sub(r'\[[0-9]*\]',' ',paragraph)
         text = re.sub(r'\s+',' ',text)
         text = text.lower()
         text = re.sub(r'\d',' ',text)
         text = re.sub(r'\s+',' ',text)
In [ ]:
         # Preparing the dataset
         sentences = nltk.sent_tokenize(text)
         sentences = [nltk.word_tokenize(sentence) for sentence in sentences]
         for i in range(len(sentences)):
             sentences[i] = [word for word in sentences[i] if word not in stopwords.words('en
In [ ]:
         # Training the Word2Vec model
         model = Word2Vec(sentences, min_count=1)
         words = model.wv.vocab
In [ ]:
         # Visualise the embedding
         from gensim.models import Word2Vec
         from sklearn.decomposition import PCA
         from matplotlib import pyplot
         # fit a 2d PCA model to the vectors
         X = model[words]
         pca = PCA(n_components=2)
         result = pca.fit_transform(X)
         # create a scatter plot of the projection
         max visual = 20
         pyplot.scatter(result[:max_visual, 0], result[:max_visual, 1])
         words = list(model.wv.vocab)
         for i, word in enumerate(words):
             if i<max visual:</pre>
                 pyplot.annotate(word, xy=(result[i, 0], result[i, 1]))
         pyplot.show()
In [ ]:
         # Finding Word Vectors
         vector = model.wv['queen']
         print(vector)
In [ ]:
         # Most similar words
         similar = model.wv.most similar('queen')
```