3.83785009e-01 2.54523326e-02 4.05251682e-02 -1.60301641e-01 8.96711648e-02 -1.36388138e-01 2.09496662e-01 3.77328306e-01 -9.83833242e-03 3.15160491e-02 -4.19224650e-01 -1.04246638e-02 2.75268346e-01 1.82515204e-01 -3.42304945e-01 6.78076670e-02 -1.37777662e+00 1.37228325e-01 6.17553294e-02 -3.93926859e-01 -1.71988323e-01 -3.32144827e-01 -3.70835274e-04 1.45283416e-02 1.77019998e-01 -8.32891703e-01 7.32914984e-01 5.15126705e-01]

[32]: model.save('glove-average-word2vec.model')

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                                                                                                               JupyterLab ☐ # Python 3 (ipykernel) ☐ ■
                                                                                                                            □ ↑ ↓ 古 〒 🗎
   Wap in Python to implement << avg >> word2vec
[12]: import numpy as np
[13]: def avg word 2 vector(sentence, model):
          words = sentence.lower().split() #convert to lower case and split using space
          word_vec = [model[word] for word in words if word in model]
          return np.mean(word_vec,axis=0) if word_vec else np.zeros(model.vector_size)
 [ ]: from gensim.models import Word2Vec
[16]: import gensim.downloader as api # This donwload will help in downloading the required model :pretrained ~ 1.5+
 [26]: #How to find the Model list
       infos = api.info()
      #print('Inforamations',infos)
       models_list = infos['models']
       #print('Model List',models_list)
       #print(List(models_list.keys())) # Keys with Version
[27]: model = api.load('glove-wiki-gigaword-50') #25,50,100,..... 70Mb -80 Mb
       [======] 100.0% 66.0/66.0MB downloaded
[30]: model = api.load('glove-wiki-gigaword-100') #25,50,100,..... 70Mb -80 Mb
       [=======] 100.0% 128.1/128.1MB downloaded
[28]: sentences = "machine learning is fun and amazing"
       vector = avg_word_2_vector(sentences,model)
      print('Average Word2Vec Vector:',vector)
       Average Word2Vec Vector: [ 8.31471607e-02 2.18846679e-01 -1.38463333e-01 6.13261648e-02
        3.85051489e-01 1.88059986e-01 -2.05892682e-01 -5.00615001e-01
        -3.75501625e-02 4.05635029e-01 -5.74426502e-02 6.43583313e-02
        -3.12729329e-01 -1.87067494e-01 1.14046663e-01 -5.25454991e-02
        1.75052509e-01 7.08079994e-01 -3.58426660e-01 -4.36812311e-01
        6.10968359e-02 5.28240025e-01 1.01175465e-01 1.72002330e-01
        7.43966639e-01 -1.01666319e+00 -7.79363334e-01 -4.19316739e-02
        5.74840724e-01 -4.77062345e-01 2.94435000e+00 1.60043344e-01
        -1.40605018e-01 -3.63293320e-01 4.47284915e-02 3.46259981e-01
        8.62003025e-03 4.20613319e-01 -8.16682950e-05 -9.25899968e-02
        1.70995995e-01 -5.62680066e-02 -3.76873344e-01 2.87421495e-01
        1.54005498e-01 -5.15500223e-03 3.54964972e-01 -2.78354973e-01
        3.36866714e-02 4.50016707e-01]
[31]: sentences = "machine learning is fun and amazing"
       vector = avg_word_2_vector(sentences,model)
       print('Average Word2Vec Vector:',vector)
       Average Word2Vec Vector: [-1.34138837e-01 3.59145492e-01 1.50785163e-01 -2.16113344e-01
        -1.06366649e-02 2.80669838e-01 1.03497505e-01 3.35541874e-01
        -2.37133410e-02 5.02013415e-02 2.00698331e-01 -3.35729986e-01
        6.82625100e-02 -1.45879492e-01 2.16315985e-01 -4.12190072e-02
        1.38842598e-01 3.30208987e-01 -3.05715144e-01 5.79083383e-01
        5.47016673e-02 9.80758294e-02 1.34446681e-01 -3.77443314e-01
        2.47162342e-01 3.13926667e-01 -1.23676330e-01 -1.60482585e-01
        -1.42685145e-01 -1.32208660e-01 -5.41059971e-01 6.55141294e-01
        -1.21306330e-01 -1.13967180e-01 2.60186166e-01 -1.87904999e-01
        -1.54202670e-01 1.57063320e-01 2.16242984e-01 -4.83716637e-01
        -1.09215014e-01 1.85354650e-02 -6.83656558e-02 -2.44222507e-01
        -3.18887681e-01 4.34966898e-03 2.24950328e-01 -2.06503332e-01
        1.38037845e-01 -6.01214945e-01 -1.20705329e-01 -1.98849186e-01
        2.56113023e-01 9.85803366e-01 1.31813824e-01 -2.11428332e+00
        1.36009499e-01 2.30268359e-01 1.07837999e+00 3.33496600e-01
        5.54566681e-02 7.02011764e-01 -3.18614990e-01 9.37383249e-02
        4.45675641e-01 9.85273346e-02 6.20333016e-01 -4.88225073e-02
```