Word2Vec Training (custom corpus vector)

[1]:
```
from gensim.models import Word2Vec
```

[4]:
```
import gensim.downloader as api
```

[5]:
```
sentences = [
    ['machine','learning','is','fun'],
    ['NLP','is','a','good','part','of','generative','AI'],
    ['word2vec','creates','word','to','vector','embeddings']
]
print('Setences:',sentences)
```

```
Setences: [['machine', 'learning', 'is', 'fun'], ['NLP', 'is', 'a', 'good', 'part', 'of', 'generative', 'AI'], ['word2vec', 'creates', 'word', 't
o', 'vector', 'embeddings']]
```

[6]:
```
model = Word2Vec(sentences=sentences, vector_size=100, window=5, min_count=1, workers=4) #workers : thread : multi-threading
```

[7]:
```
print('Vector of Word 2 Vec:',model.wv['machine'])
```

```
Vector of Word 2 Vec: [ 1.30016683e-03 -9.80430283e-03  4.58776252e-03 -5.38222783e-04
  6.33209571e-03  1.78347470e-03 -3.12979822e-03  7.75997294e-03
  1.55466562e-03  5.52093989e-05 -4.61295387e-03 -8.45352374e-03
 -7.76683213e-03  8.67050979e-03 -8.92496016e-03  9.03471559e-03
 -9.28101782e-03 -2.76756298e-04 -1.90704700e-03 -8.93114600e-03
  8.63005966e-03  6.77781366e-03  3.01943906e-03  4.83345287e-03
  1.12190246e-04  9.42468084e-03  7.02128746e-03 -9.85372625e-03
 -4.43322072e-03 -1.29011157e-03  3.04772262e-03 -4.32395237e-03
  1.44916656e-03 -7.84589909e-03  2.77807354e-03  4.70269192e-03
  4.93731257e-03 -3.17570218e-03 -8.42704065e-03 -9.22061782e-03
 -7.22899451e-04 -7.32746487e-03 -6.81496272e-03  6.12000562e-03
  7.17230327e-03  2.11741915e-03 -7.89940078e-03 -5.69898821e-03
  8.05184525e-03  3.92084382e-03 -5.24047017e-03 -7.39190448e-03
  7.71554711e-04  3.46375466e-03  2.07919348e-03  3.10080405e-03
 -5.62050007e-03 -9.88948625e-03 -7.02083716e-03  2.30308768e-04
  4.61867917e-03  4.52630781e-03  1.87981245e-03  5.17067453e-03
 -1.05360748e-04  4.11416637e-03 -9.12324060e-03  7.70091172e-03
  6.14747405e-03  5.12415636e-03  7.20666908e-03  8.43979698e-03
  7.38695846e-04 -1.70386070e-03  5.18628338e-04 -9.31678060e-03
  8.40621442e-03 -6.37993217e-03  8.42784252e-03 -4.24435502e-03
  6.46842702e-04 -9.16416850e-03 -9.55856778e-03 -7.83681031e-03
 -7.73105631e-03  3.75581993e-04 -7.22646248e-03 -4.95021325e-03
 -5.27170673e-03 -4.28929785e-03  7.01231137e-03  4.82938997e-03
  8.68277065e-03  7.09359162e-03 -5.69440611e-03  7.24079600e-03
 -9.29490291e-03 -2.58756871e-03 -7.75716640e-03  4.19260142e-03]
```

How to save the Model so we need to perform same steps of vectorisation.

[8]:
```
model.save("word2vec.model")
```

[ ]: