

Word2Vector using google new Pretrained Model

```
[1]: from word2vec.AverageWord2Vec import avg_word_2_vector as avg_vector

[2]: import gensim.downloader as api

[3]: model = api.load('word2vec-google-news-300') #donwLoad
[=====] 100.0% 1662.8/1662.8MB downloaded

[ ]: ### Please wait will it is download do not touch jupyter : package may get Loss.

[5]: sentences = "machine learning is fun and amazing"
vector = avg_vector(sentences,model)
print('Average Word2Vec Vector:',vector)

Average Word2Vec Vector: [ 6.54724091e-02 -1.25915529e-02 -1.84082035e-02  9.72656235e-02
 2.18505859e-02  1.02343753e-01  8.46191421e-02  1.84570309e-02
-2.09960938e-02  4.13330086e-02  1.69921871e-02 -1.18457034e-01
 9.39941406e-03 -1.43457025e-01  8.89770538e-02  1.61621094e-01
-2.78320303e-03  1.73242182e-01  3.65234390e-02 -1.03662111e-01
-1.41113279e-02  1.89453125e-01  1.26449587e-02  1.41333014e-01
 3.31542976e-02 -9.93745774e-02 -5.67382798e-02  4.82421890e-02
 3.89160141e-02 -1.35644525e-01 -5.54687493e-02 -2.28515621e-02
 7.52929673e-02  1.68115228e-01  3.05175781e-02 -9.13885938e-02
-2.96508782e-02 -2.00195312e-02  1.53417975e-01  6.99707046e-02
 1.66503906e-01 -6.04728684e-02  6.49414062e-02  5.57128899e-02
 1.13281254e-02 -9.21997055e-02  2.61718743e-02  1.06054686e-01
 4.03808579e-02  4.31640632e-02 -1.65161137e-02  6.92871064e-02
 1.91894528e-02 -2.11181641e-02  4.65820320e-02  1.28271490e-01
 1.00439452e-01 -1.59759521e-01  6.70410171e-02 -8.30047578e-02
-3.81103531e-02  6.31591827e-02 -6.99218735e-02 -1.64916992e-01
 3.75732407e-02  1.04492186e-02 -1.37133792e-01 -2.96752937e-02
-7.44140595e-02  5.05371094e-02  4.36523445e-02  1.42089846e-02
 8.33007842e-02 -7.64160138e-03 -9.05761681e-03 -2.85430904e-02
 9.32373032e-02 -7.37304706e-03  6.39068633e-02  8.23242217e-02
 1.69921871e-02 -5.25146499e-02  3.24707031e-02  7.33642559e-03
-2.73437500e-02 -1.29243463e-01 -1.31054685e-01  2.55273432e-01
 1.32324219e-01  5.18554673e-02 -1.95312503e-04  3.79394516e-02
-8.74267593e-02 -8.62792954e-02 -1.15747072e-01 -7.41271954e-03
 8.58398452e-02  7.59765655e-02  7.06054717e-02 -3.30566391e-02
-5.30273430e-02  4.44824211e-02 -7.93090835e-02  4.33105454e-02
-6.32568374e-02  6.94458038e-02  8.64990205e-02 -1.24658205e-01
 4.89913933e-02 -1.66601568e-01 -5.26855476e-02  3.72070298e-02
-1.04418948e-01 -2.61718743e-02  9.18212986e-02 -6.81152334e-03
 1.49414064e-02 -8.37524384e-02  7.09228516e-02 -1.16552733e-01
-8.60717744e-02  3.12500005e-03  7.78015187e-02  7.38281235e-02
-7.39257783e-02  3.52783198e-03 -4.37438972e-02  4.72961441e-02
-3.66271958e-02  1.99072272e-01 -5.46386726e-02 -1.11926273e-01
-1.48730472e-01  2.44140625e-02  4.14611809e-02  4.76684561e-03
 1.21484376e-01  2.08251961e-02 -9.71923843e-02  9.88647491e-02
 3.20312493e-02 -2.05078125e-02  5.10375984e-02 -2.75146477e-02
-4.55566421e-02 -2.28027347e-02  5.52520752e-02 -4.32617180e-02
 1.26953120e-03 -1.42236322e-01  1.32373050e-01  1.10302731e-01
-1.05957031e-01  1.53125003e-01 -2.81921383e-02  6.11328110e-02
-7.00683612e-03 -1.00781247e-01 -2.22216800e-01 -1.50927737e-01
 4.26086411e-02  1.74707025e-01  8.28399695e-03  1.57812506e-01
 7.00683594e-02 -2.12304682e-01  1.12744138e-01 -9.83947739e-02
 6.31347671e-02  4.90631089e-02 -1.17285155e-01  4.39453125e-03
-5.15624993e-02  3.03710941e-02 -4.20898423e-02  7.77008086e-02
 1.86706539e-02 -9.28898467e-02  1.49414064e-02  2.91992184e-02
-6.37207031e-02 -8.54522735e-02  1.60479739e-01 -7.02636689e-02
-1.41235348e-02  5.46142571e-02 -8.01391602e-02 -1.83593743e-02
 1.94335934e-02 -1.25000000e-01 -1.57714840e-02  9.41406265e-02
 3.78540047e-02  6.67236298e-02  9.59472638e-03 -1.93359368e-02
-2.24853512e-02 -1.02392577e-01 -1.40039057e-01 -1.96386725e-01
 3.96484360e-02  1.39160156e-02 -1.06445312e-01 -2.73437500e-02
-4.74121086e-02  3.87695320e-02 -8.92578140e-02 -6.73828134e-03
-7.51586929e-02 -9.57031269e-03  3.74511784e-02  1.34179682e-01
-1.01855472e-01  3.53515632e-02  4.40429673e-02 -1.95373539e-02
 1.35705560e-01  3.74511704e-02 -1.24365233e-01 -5.63964853e-03
-1.32568358e-02  5.16113266e-02  3.90220657e-02 -4.02832031e-02
-1.81152336e-02  4.64111343e-02 -3.01635750e-02 -3.00848832e-02
-5.88073730e-02 -6.70776367e-02 -2.28027347e-02  3.91601548e-02
 3.83300781e-02  6.98242197e-03  8.37890655e-02 -4.73388657e-02
-8.79394561e-02  7.22656259e-03  8.27880874e-02  8.12042207e-02
 5.22705093e-02 -1.99340824e-02 -7.61306733e-02 -1.70898438e-01
-5.82831235e-02  2.37792972e-02 -1.06811523e-03  3.68530266e-02
 6.15234394e-03 -2.38900751e-01 -5.44921868e-02  3.20251472e-02
 1.03881836e-01  1.55273438e-01  5.15624993e-02 -1.48730472e-01
```

```

-1.58935543e-02 -3.90502922e-02 -1.34667963e-01 -1.45947263e-01
-5.68847638e-03 -5.97167984e-02 -4.93408218e-02 4.06738296e-02
-8.74511749e-02 1.28854364e-01 1.34521484e-01 -8.51562470e-02
-1.44628912e-01 9.37622041e-02 -9.76562515e-05 9.55078155e-02
1.05883792e-01 2.38281246e-02 3.19335945e-02 -1.01513669e-01
1.43310549e-02 -9.87304673e-02 -1.14672855e-01 -2.90527344e-02
5.49804680e-02 -2.53082272e-02 -8.50341767e-02 -1.77429207e-02
4.39453113e-04 -1.31018072e-01 -7.02148452e-02 -1.85546875e-02
1.00537106e-01 1.39770508e-01 -1.49902344e-01 5.63964844e-02
-2.10156247e-01 -3.06640621e-02 -1.27221674e-01 -9.35058594e-02
1.04327396e-01 -4.00878899e-02 -4.84374985e-02 -1.85546873e-03]

```

```
[6]: print('Vector of King :',model['King'])
```

```

Vector of King : [ 1.25976562e-01 2.97851562e-02 8.60595703e-03 1.39648438e-01
-2.56347656e-02 -3.61328125e-02 1.11816406e-01 -1.98242188e-01
5.12695312e-02 3.63281250e-01 -2.42187500e-01 -3.02734375e-01
-1.77734375e-01 -2.49023438e-02 -1.67968750e-01 -1.69921875e-01
3.46679688e-02 5.21850586e-03 4.63867188e-02 1.28906250e-01
1.36718750e-01 1.12792969e-01 5.95703125e-02 1.36718750e-01
1.01074219e-01 -1.76757812e-01 -2.51953125e-01 5.98144531e-02
3.41796875e-01 -3.11279297e-02 1.04492188e-01 6.17675781e-02
1.24511719e-01 4.00390625e-01 -3.22265625e-01 8.39843750e-02
3.90625000e-02 5.85937500e-03 7.03125000e-02 1.72851562e-01
1.38671875e-01 -2.31445312e-01 2.83203125e-01 1.42578125e-01
3.41796875e-01 -2.39257812e-02 -1.09863281e-01 3.32831250e-02
-5.46875000e-02 1.53198242e-02 -1.62109375e-01 1.58203125e-01
-2.59765625e-01 2.01416016e-02 -1.63085938e-01 1.35803223e-03
-1.44531250e-01 -5.68847656e-02 4.29687500e-02 -2.46582031e-02
1.85546875e-01 4.47265625e-01 9.58251953e-03 1.31835938e-01
9.86328125e-02 -1.85546875e-01 -1.00097656e-01 -1.33789062e-01
-1.25000000e-01 2.83203125e-01 1.23046875e-01 5.32226562e-02
-1.77734375e-01 8.59375000e-02 -2.18505859e-02 2.05078125e-02
-1.39648438e-01 2.51464844e-02 1.38671875e-01 -1.05468750e-01
1.38671875e-01 8.88671875e-02 -7.51953125e-02 -2.13623047e-01
1.72851562e-01 4.63867188e-02 -2.65625000e-01 8.91113281e-03
1.49414062e-01 3.78417969e-02 2.38281250e-01 -1.24511719e-01
-2.17773438e-01 -1.81640625e-01 2.97851562e-02 5.71289062e-02
-2.89306641e-02 1.24511719e-02 9.66796875e-02 -2.31445312e-01
5.81054688e-02 6.68945312e-02 7.08007812e-02 -3.08593750e-01
-2.14843750e-01 1.45507812e-01 -4.27734375e-01 -9.39941406e-03
1.54296875e-01 -7.66601562e-02 2.89062500e-01 2.77343750e-01
-4.86373901e-04 -1.36718750e-01 3.24218750e-01 -2.46893750e-01
-3.03649902e-03 -2.11914062e-01 1.25000000e-01 2.69531250e-01
2.0401562e-01 8.25195312e-02 -2.01171875e-01 -1.60156250e-01
-3.78417969e-02 -1.20117188e-01 1.15234375e-01 -4.10156250e-02
-3.95507812e-02 -8.98437500e-02 6.34765625e-03 2.03125000e-01
1.86523438e-01 2.73437500e-01 6.29882812e-02 1.41601562e-01
-9.81445312e-02 1.38671875e-01 1.82617188e-01 1.73828125e-01
1.73828125e-01 -2.37304688e-01 1.78710938e-01 6.34765625e-02
2.36328125e-01 -2.08984375e-01 8.74023438e-02 -1.66015625e-01
-7.91015625e-02 2.43164062e-01 -8.88671875e-02 1.26953125e-01
-2.16796875e-01 -1.73828125e-01 -3.59375000e-01 -8.25195312e-02
-6.49414062e-02 5.07812500e-02 1.35742188e-01 -7.47078312e-02
-1.64862500e-01 1.15356445e-02 4.45312500e-01 -2.15820312e-01
-1.11328125e-01 -1.92382812e-01 1.70898438e-01 -1.25000000e-01
2.65502930e-03 1.92382812e-01 -1.74804688e-01 1.39648438e-01
2.92968750e-01 1.13281250e-01 5.95703125e-02 -6.39648438e-02
9.96093750e-02 2.72216797e-02 1.96533203e-02 4.27246094e-02
-2.46093750e-01 6.39648438e-02 -2.25585938e-01 -1.68945312e-01
2.89916992e-03 8.20312500e-02 3.41796875e-01 4.32128906e-02
1.32812500e-01 1.42578125e-01 7.61718750e-02 5.98144531e-02
-1.19140625e-01 2.74658203e-03 -6.29882812e-02 -2.72216797e-02
-4.82177734e-03 -8.20312500e-02 -2.49023438e-02 -4.00390625e-01
-1.06933594e-01 4.24804688e-02 7.76367188e-02 -1.16699219e-01
7.37304688e-02 -9.22851562e-02 1.07910156e-01 1.58203125e-01
4.24804688e-02 1.26953125e-01 3.61328125e-02 2.67578125e-01
-1.01074219e-01 -3.02734375e-01 -5.76171875e-02 5.05371094e-02
5.26428223e-04 -2.07031250e-01 -1.38671875e-01 -8.97216797e-03
-2.78320312e-02 -1.41601562e-01 2.07031250e-01 -1.58203125e-01
1.27929688e-01 1.49414062e-01 -2.24609375e-02 -8.44726562e-02
1.22558594e-01 2.15820312e-01 -2.13867188e-01 -3.12500000e-01
-3.73046875e-01 4.08935547e-03 1.07421875e-01 1.06933594e-01
7.32421875e-02 8.97216797e-03 -3.88183594e-02 -1.29882812e-01
1.49414062e-01 -2.14843750e-01 -1.83868408e-03 9.91210938e-02
1.57226562e-01 -1.14257812e-01 -2.05078125e-01 9.91210938e-02
3.69140625e-01 -1.97265625e-01 3.54003966e-02 1.09375000e-01
1.31835938e-01 1.66992188e-01 2.35351562e-01 1.04980469e-01
-4.96093750e-01 -1.64062500e-01 -1.56250000e-01 -5.22460938e-02
1.03027344e-01 2.43164062e-01 -1.88476562e-01 5.07812500e-02
-9.37500000e-02 -6.68945312e-02 2.27050781e-02 7.61718750e-02
2.89062500e-01 3.10546875e-01 -5.37109375e-02 2.28515625e-01
2.51464844e-02 6.78710938e-02 -1.21093750e-01 -2.15820312e-01
-2.73437500e-01 -3.07617188e-02 -3.37890625e-01 1.53320312e-01
2.33398438e-01 -2.08007812e-01 3.73046875e-01 8.20312500e-02
2.51953125e-01 -7.61718750e-02 -4.663088594e-02 -2.23388672e-02
2.99072266e-02 -5.93261719e-02 -4.66918945e-03 -2.44140625e-01
-2.09960938e-01 -2.87109375e-01 -4.54101562e-02 -1.77734375e-01
-2.79296875e-01 -8.59375000e-02 9.13085938e-02 2.51953125e-01]
```

Gender Similarity : King,man and woman

```
[7]: print('Vector of Man:',model['man'])
```

Vector of Man: [0.32617188 0.13085938 0.03466797 -0.08300781 0.08984375 -0.04125977
-0.19824219 0.00689697 0.14355469 0.0019456 0.02880859 -0.25
-0.08398438 -0.15136719 -0.10205078 0.04077148 -0.09765625 0.05932617
0.02978516 -0.10058594 -0.13085938 0.001297 0.02612305 -0.27148438
0.06396484 -0.19140625 -0.078125 0.25976562 0.375 -0.04541016
0.16210938 0.13671875 -0.06396484 -0.02062988 -0.09667969 0.25390625
0.24804688 -0.12695312 0.07177734 0.3283125 0.03149414 -0.03857422
0.21191406 -0.08011768 0.22265625 -0.13476562 -0.07617188 0.01049805
-0.05175781 0.03808594 -0.13378906 0.125 0.0559082 -0.18261719
0.08154297 -0.08447266 -0.07763672 -0.04345703 0.08105469 -0.01092529
0.17480469 0.30664062 -0.04321289 -0.01416016 0.09082831 -0.00927734
-0.03442383 -0.11523438 0.12451172 -0.0246582 0.08544922 0.14355469
-0.27734375 0.03662109 -0.11035156 0.13085938 -0.01721191 -0.08056641
-0.00708008 -0.02954102 0.30078125 -0.09833203 0.03149414 -0.18652344
-0.11181641 0.10253906 -0.25976562 -0.02209473 0.16796875 -0.05322266
-0.14550781 -0.01849805 -0.03839551 -0.03857422 0.11523438 -0.0062561
-0.13964844 0.08007812 0.06103516 -0.15332031 -0.11132812 -0.14160156
0.19824219 -0.06933594 0.29296875 -0.16015625 0.20898438 0.00041771
0.01831855 -0.20214844 0.04760742 0.05810547 -0.0123291 -0.01989746
-0.00364685 -0.0135498 -0.08251953 -0.03149414 0.00717163 0.20117188
0.08300781 -0.0480957 -0.26367188 -0.09667969 -0.22558594 -0.09667969
0.06494141 -0.02502441 0.08496094 0.03198242 -0.07568359 -0.25390625
-0.11669922 -0.01446533 -0.16015625 -0.00701904 -0.05712891 0.02807617
-0.09179688 0.25195312 0.24121094 0.06640625 0.12988281 0.17089844
-0.13671875 0.1875 -0.10009766 -0.04199219 -0.12011719 0.00524902
0.15625 -0.203125 -0.07128906 -0.06103516 0.01635742 0.18261719
0.03588867 -0.04248047 0.16796875 -0.15039062 -0.16992188 0.01831055
0.27734375 -0.01269531 -0.0390625 -0.15429688 0.18457831 -0.07910156
0.09033203 -0.02709961 0.08251953 0.06738281 -0.16113281 -0.19628906
-0.15234375 -0.04711914 0.04760742 0.05908203 -0.16894531 -0.14941406
0.12988281 0.04321289 0.02624512 -0.1796875 -0.19628906 0.06445312
0.08935547 0.1640625 -0.03808594 -0.09814453 -0.01483154 0.1875
0.12792969 0.22753906 0.01818848 -0.07958984 -0.11376953 -0.06933594
-0.15527344 -0.08105469 -0.09277344 -0.11328125 -0.15136719 -0.08007812
-0.05126953 -0.15332031 0.11669922 0.06835938 0.0324707 -0.33984375
-0.0154297 -0.08349609 0.04003906 0.04907227 -0.24121094 -0.13476562
-0.05932617 0.12158023 -0.34179688 0.16503906 0.06176758 -0.18164062
0.20117188 -0.07714844 0.1640625 0.00402832 0.30273438 -0.10009766
-0.13671875 -0.05957031 0.0625 -0.21289062 -0.06542969 0.1796875
-0.07763672 -0.01928711 -0.15039062 -0.00106849 0.03417969 0.03344727
0.19335938 0.01965332 -0.19921875 -0.10644531 0.01525879 0.00927734
0.01416016 -0.02392578 0.05883789 0.02368164 0.125 0.04760742
-0.05566406 0.11572266 0.14746894 0.1015625 -0.07128906 -0.07714844
-0.12597656 0.0291748 0.09521484 -0.12402344 -0.109375 -0.12890625
0.16308594 0.28320312 -0.03149414 0.12304688 -0.23242188 -0.09375
-0.12988281 0.0135498 -0.03881836 -0.08251953 0.00897217 0.16308594
0.10546875 -0.13867188 -0.16503906 -0.03857422 0.10839844 -0.10498047
0.06396484 0.38867188 -0.05981445 -0.0612793 -0.10449219 -0.16796875
0.07177734 0.13964844 0.15527344 -0.03125 -0.20214844 -0.12988281
-0.10058594 -0.06396484 -0.08349609 -0.30273438 -0.08007812 0.02099609]

```
[8]: print('Vector of woman:',model['woman'])
```

Vector of woman: [2.43164062e-01 -7.71484375e-02 -1.03027344e-01 -1.07421875e-01
1.18164062e-01 -1.07421875e-01 -1.14257812e-01 2.56347656e-02
1.11816406e-01 4.85839844e-02 -9.71679688e-02 -3.43750000e-01
-6.29882812e-02 -1.25000000e-01 -2.70996094e-02 9.42382812e-02
-1.87500000e-01 -5.34667969e-02 6.25000000e-02 -3.05175781e-02
-2.90527344e-02 -4.80957031e-02 -5.51757812e-02 -4.08203125e-01
1.01318359e-02 -2.32421875e-01 -1.70898438e-01 2.63671875e-01
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1.18652344e-01 -8.30078125e-02 6.54296875e-02 -2.94189453e-02]

```

```

[10]: print('Simularity Between and King and Queen :',model.similarity('King','queen')); #power,royal,..
Simularity Between and King and Queen : 0.6510956

[11]: similarity = model.similarity('king','queen')*100

[12]: print('% of similarity:',similarity)

% of similarity: 65.10956287384033

[15]: print('% of similarity:',round(similarity,2),'%')

% of similarity: 65.11 %

[16]: # Logical Reasoning : of Gender Differnence and simlarity

```

Q1 : if man is to king then what will be woman is _____?

```

[17]: # vector('man') and vector('king') -> Relationship --> women ---> Prediction

[19]: result = model.most_similar(positive=['woman','king'],negative=['man'])

[20]: answer,score = result[0]

[21]: print('Answer with score :',answer,score)

Answer with score : queen 0.7118193507194519

```

[]: