

```
C:\Users\Samuel\PycharmProjects\pythonProject\venv\
Scripts\python.exe "C:\Program Files\JetBrains\PyCharm
2020.2.1\plugins\python\helpers\pydev\pydevd.py" --
multiproc --qt-support=auto --client 127.0.0.1 --port
51674 --file C:/Users/Samuel/PycharmProjects/
Doc2Vec_Movie_Analysis/d2v_tf_source.py
Connected to pydev debugger (build 212.5457.59)
2021-12-13 10:11:00.602461: W tensorflow/stream_executor/
platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not
found
2021-12-13 10:11:00.602695: I tensorflow/stream_executor/
cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
WARNING:tensorflow:From C:\Users\Samuel\PycharmProjects\
pythonProject\venv\lib\site-packages\tensorflow\python\
compat\v2_compat.py:101: disable_resource_variables (from
tensorflow.python.ops.variable_scope) is deprecated and
will be removed in a future version.
Instructions for updating:
non-resource variables are not supported in the long term
Initialization Complete. Time: 0.0 min
C:\Program Files\JetBrains\PyCharm 2020.2.1\plugins\python
\helpers\pydev\pydevd.py:1476: DtypeWarning: Columns (9)
have mixed types.Specify dtype option on import or set
low_memory=False.
    return self._exec(is_module, entry_point_fn,
module_name, file, globals, locals)
Before Preprocessing:
```

	narrative	Product
1	I contacted Ally on Friday XX/XX/XXXX after fa	
...		Vehicle loan or lease
3	Thanks to the CFPB I was able to get my accoun...	
	Credit reporting, credit repair services, or o...	
5	Hello This complaint is against the three cred...	
	Credit reporting, credit repair services, or o...	
	Dataframe Shape: (200, 2)	

Number of words in dataset: 46581

Preprocessing Complete. Time: 0.16 min

Number of words in dataset: 46581, delta: -0

Sentences: 99. Time: 0.16 min

Words: 129579. Time: 0.16 min

Most Common [['UNK', 35], ('the', 913), ('i', 844), ('to', 802), ('and', 639), ('my', 494), ('a', 486), ('of', 424), ('that', 411), ('was', 328)]

Sample data [[1612, 3, 1, 577, 2, 9, 344, 3, 94, 5, 22, 1062, 73, 23, 9, 832, 10, 50, 1613, 128, 11, 29, 76, 2, 95, 16, 6, 133, 53, 2, 1614, 2, 35, 6, 1615, 258, 3, 1063, 6, 435, 4, 1616, 184, 6, 112, 10, 345, 65, 47, 11, 239, 17, 117, 90, 680, 73, 1, 102, 1617, 5, 100, 73, 1618, 103, 165, 4, 1064, 833, 316, 346, 2, 35, 128, 240, 49, 3, 681, 6, 65, 47, 23, 1619, 118, 3, 1065, 241, 347, 4, 1, 208, 82, 9, 578, 3, 28, 83, 834, 96, 4, 5, 579, 436, 94, 317, 70, 682, 165, 259, 11, 29, 1620, 23, 4, 7, 580, 23, 85, 158, 260, 1065, 241, 347, 52, 11, 581, 3, 1066, 317, 11, 74, 581, 3, 437, 20, 3, 6, 1621, 159, 8, 54, 82, 14, 79, 62, 1, 0], [0, 13, 141, 14, 261, 1, 242, 18, 76, 1067, 34, 683, 684, 4, 44, 2, 499, 500, 1623, 12, 5, 18, 39, 70, 2, 224, 6, 18, 835, 19, 1624, 287, 2, 119, 288, 1, 242, 18, 209, 685, 174, 19, 6, 1625, 65, 262, 185, 263, 49, 3, 1068, 1069, 59, 383, 12, 5, 39, 11, 60, 6, 186, 4, 6, 45, 22, 24, 44, 1, 289, 24, 4, 9, 8, 23, 9, 175, 176, 50, 384, 1626, 44, 8, 80, 15, 28, 686, 52, 2, 16, 6, 835, 12, 5, 22, 129, 134, 40, 54, 82, 80, 687, 5, 39, 17, 438, 243, 2, 1627, 317, 2, 501, 4, 6, 439, 65, 4, 290, 49, 12, 185, 502, 49, 8, 11, 16, 688, 53, 11, 111, 8, 11, 175, 1, 90, 59, 10, 582, 318, 52, 2, 16, 6, 835, 12, 5, 22, 4, 53, 2, 86, 12, 185, 11, 174, 8, 54, 82, 38, 122, 30, 583, 197, 3, 5, 22, 13, 440, 2, 43, 49, 8, 11, 29, 10, 291, 7, 5, 166, 225, 4, 441, 8, 63, 90, 59, 28, 149, 24, 5, 39, 503, 113, 501, 87, 6, 65, 262, 185, 159, 8, 175, 1, 59, 4, 8, 2, 106, 836, 3, 49, 71, 2, 16, 6, 689, 683, 684, 61, 584, 3, 5, 65, 262, 185, 3, 1068, 1, 90, 59, 10, 582, 129, 4, 1, 264, 1628, 96, 3, 504, 5, 135, 38, 42, 1629, 53, 2, 385, 5, 18, 39, 19, 1070, 23, 386, 8, 11

```
, 690, 1630, 3, 150, 1, 90, 59, 10, 837, 2, 74, 501, 49,
6, 439, 65, 4, 290, 23, 12, 185, 159, 8, 11, 29, 10, 291
, 7, 5, 166, 225, 4, 441, 8, 63, 90, 59, 28, 149, 24, 5,
39, 503, 142, 504, 63, 1631, 52, 151, 11, 29, 387, 14,
1071, 11, 29, 318, 6, 384, 348, 8, 1632, 505, 41, 4, 1072
, 23, 3, 88, 22, 4, 119, 388, 57, 3, 838, 49, 3, 94, 23,
1073, 54, 2, 265, 16, 3, 838, 52, 34, 4, 683, 684, 46,
688, 4, 111, 8, 175, 4, 22, 40, 14, 839, 52, 5, 22, 19,
49, 14, 1074, 4, 54, 82, 80, 197, 23, 47, 1633, 2, 441, 8
, 63, 319, 12, 5, 22, 8, 9, 15, 175, 28, 149, 24, 5, 22,
52, 11, 29, 10, 291, 7, 5, 225, 4, 15, 3, 1634, 683, 684
, 67, 15, 123, 442, 3, 5, 506, 2346]]
```

WARNING:tensorflow:From C:\Users\Samuel\PycharmProjects\pythonProject\venv\lib\site-packages\tensorflow\python\training\adagrad.py:76: calling Constant.__init__ (from tensorflow.python.ops.init_ops) with dtype is deprecated and will be removed in a future version.

Instructions for updating:

Call initializer instance with the dtype argument instead of passing it to the constructor

WARNING:tensorflow:From C:\Users\Samuel\PycharmProjects\pythonProject\venv\lib\site-packages\tensorflow\python\util\dispatch.py:206: calling reduce_sum_v1 (from tensorflow.python.ops.math_ops) with keep_dims is deprecated and will be removed in a future version.

Instructions for updating:

keep_dims is deprecated, use keepdims instead

2021-12-13 10:11:13.126557: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-12-13 10:11:13.126727: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cublas64_11.dll'; dlerror: cublas64_11.dll not found

2021-12-13 10:11:13.126937: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cublasLt64_11.dll'; dlerror: cublasLt64_11.dll

not found

2021-12-13 10:11:13.127126: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cufft64_10.dll'; dlerror: cufft64_10.dll not found

2021-12-13 10:11:13.127343: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'curand64_10.dll'; dlerror: curand64_10.dll not found

2021-12-13 10:11:13.127549: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cusolver64_11.dll'; dlerror: cusolver64_11.dll not found

2021-12-13 10:11:13.127758: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cusparse64_11.dll'; dlerror: cusparse64_11.dll not found

2021-12-13 10:11:13.127963: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudnn64_8.dll'; dlerror: cudnn64_8.dll not found

2021-12-13 10:11:13.128103: W tensorflow/core/common_runtime/gpu/gpu_device.cc:1835] Cannot dlopen some GPU libraries. Please make sure the missing libraries mentioned above are installed properly if you would like to use GPU. Follow the guide at <https://www.tensorflow.org/install/gpu> for how to download and setup the required libraries for your platform.

Skipping registering GPU devices...

2021-12-13 10:11:13.128612: I tensorflow/core/platform/cpu_feature_guard.cc:142] This TensorFlow binary is optimized with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical operations: AVX AVX2

To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.

Initialized. Time: 0.17 min

EPOCH 0 Loss: 18.858932. Time: 0.17 min

EPOCH 0 Loss: 22.755628. Time: 0.18 min

EPOCH 0 Loss: 17.719073. Time: 0.18 min
EPOCH 0 Loss: 15.636167. Time: 0.18 min
EPOCH 0 Loss: 13.933729. Time: 0.19 min
EPOCH 0 Loss: 13.904240. Time: 0.19 min
EPOCH 0 Loss: 13.174058. Time: 0.19 min
EPOCH 0 Loss: 12.055596. Time: 0.2 min
EPOCH 0 Loss: 11.266427. Time: 0.2 min
EPOCH 0 Loss: 11.300169. Time: 0.2 min
EPOCH 0 Loss: 10.247751. Time: 0.21 min
EPOCH 0 Loss: 10.270956. Time: 0.21 min
EPOCH 0 Loss: 9.639985. Time: 0.21 min
EPOCH 0 Loss: 8.855617. Time: 0.22 min
EPOCH 0 Loss: 8.810721. Time: 0.22 min
EPOCH 0 Loss: 8.169961. Time: 0.22 min
EPOCH 0 Loss: 7.225863. Time: 0.23 min
EPOCH 0 Loss: 8.477671. Time: 0.23 min
EPOCH 0 Loss: 7.964326. Time: 0.24 min
EPOCH 0 Loss: 7.444240. Time: 0.24 min
EPOCH 0 Loss: 6.821353. Time: 0.24 min

Accuracy: 0.0%

Accuracy: 33.3%

Accuracy: 18.2%

Accuracy: 12.5%

Accuracy: 19.0%

Accuracy: 15.4%

Accuracy: 16.1%

Accuracy: 19.4%

Accuracy: 19.5%

Accuracy: 19.6%

Accuracy: 21.6%

Accuracy: 23.2%

Accuracy: 26.2%

Accuracy: 25.8%

Accuracy: 23.9%

Accuracy: 23.7%

Accuracy: 24.7%

Accuracy: 25.6%

Accuracy: 26.4%

Accuracy: 25.0%

*

* 1 NEAREST ACCURACY FINAL:

Accuracy: 25.3%

*

Accuracy: 0.0%

Accuracy: 33.3%

Accuracy: 27.3%

Accuracy: 25.0%

Accuracy: 28.6%

Accuracy: 26.9%

Accuracy: 32.3%

Accuracy: 36.1%

Accuracy: 34.1%

Accuracy: 37.0%

Accuracy: 41.2%

Accuracy: 41.1%

Accuracy: 44.3%

Accuracy: 43.9%

Accuracy: 43.7%

Accuracy: 42.1%

Accuracy: 43.2%

Accuracy: 43.0%

Accuracy: 41.8%

Accuracy: 41.7%

*

* 5 NEAREST ACCURACY FINAL:

Accuracy: 40.4%

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Process finished with exit code 0