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     "[nltk data] Error loading stopwords: <urlopen error [Errno -3]\n",
      "[nltk data]
                       Temporary failure in name resolution>\n",
     "[nltk data] Error loading wordnet: <urlopen error [Errno -3]
Temporary\n",
     "[nltk data] failure in name resolution>\n"
    ]
    },
    "name": "stdout",
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    "text": [
     "\u001b[2m\u001b[1m\u001b[32m\n",
     "NECESSARY LIBRARIES WERE SUCCESFULLY IMPORTED...\u001b[0m\n"
    ]
    },
    "name": "stderr",
     "output_type": "stream",
     "text": [
     "[nltk data] Error loading omw-1.4: <urlopen error [Errno -3]
Temporary\n",
     "[nltk data] failure in name resolution>\n"
     ]
    }
   ],
   "source": [
    "import numpy as np\n",
    "import pandas as pd\n",
    "import seaborn as sns\n",
    "import matplotlib.pyplot as plt\n",
    "import plotly.express as px\n",
```

```
"import re, string, unicodedata\n",
    "from string import punctuation\n",
    "from termcolor import colored\n",
    "from collections import Counter\n",
    "\n",
    "from sklearn.preprocessing import LabelBinarizer\n",
    "from sklearn.metrics import classification report, confusion matrix,
accuracy score\n",
    "from sklearn.model selection import train test split\n",
    "from sklearn.preprocessing import LabelEncoder\n",
    "import keras\n",
    "import tensorflow as tf\n",
    "from keras.preprocessing import text, sequence\n",
    "from keras.models import Sequential\n",
    "from keras.layers import Dense, Embedding, LSTM, Dropout\n",
    "from keras.callbacks import ReduceLROnPlateau\n",
    "from tensorflow.keras.preprocessing.text import Tokenizer\n",
    "\n",
    "import nltk\n",
    "from nltk.corpus import stopwords\n",
    "from textblob import Word\n",
    "nltk.download('stopwords')\n",
    "nltk.download('wordnet')\n",
    "nltk.download('omw-1.4')\n",
    "from nltk.stem.porter import PorterStemmer\n",
    "from wordcloud import WordCloud, STOPWORDS\n",
    "from nltk.stem import WordNetLemmatizer\n",
    "from nltk.tokenize import word tokenize, sent tokenize\n",
    "from nltk import pos tag\n",
    "from nltk.corpus import wordnet\n",
    "from warnings import filterwarnings\n",
    "filterwarnings('ignore')\n",
    "from sklearn import set config\n",
    "set config(print changed only = False) \n",
    "\n",
    "#to see full text:\n",
    "pd.set option(\"display.max colwidth\", -1)\n",
    "print(colored(\"\\nNECESSARY LIBRARIES WERE SUCCESFULLY
IMPORTED...\", color = \"green\", attrs = [\"bold\", \"dark\"]))"
  1
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     "shell.execute reply": "2022-10-25T06:57:22.687658Z"
    "papermill": {
     "duration": 0.064341,
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     "text": [
     "\u001b[2m\u001b[1m\u001b[32m\n",
     "DATASETS WERE SUCCESFULLY LOADED...\u001b[0m\n"
    ]
   }
   ],
   "source": [
   "data = pd.read csv(\"../input/sms-spam-collection-
dataset/spam.csv\", encoding = \"ISO-8859-1\", engine = \"python\")\n",
    "\n",
    "print(colored(\"\\nDATASETS WERE SUCCESFULLY LOADED...\", color =
\"green\", attrs = [\"bold\", \"dark\"]))"
  ]
  },
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    "end time": "2022-10-25T06:57:22.713703",
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     "start time": "2022-10-25T06:57:22.703938",
    "status": "completed"
   },
    "tags": []
   },
   "source": [
   "### <span style = \"background:#410F01; border:black solid; font-
size:100%; color:#fff; border-radius:10px;\">Look at the dataset</span>"
  ]
  },
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   "metadata": {
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     "<style scoped>\n",
         .dataframe tbody tr th:only-of-type {\n",
     **
            vertical-align: middle; \n",
     **
         }\n",
     "\n",
         .dataframe thody tr th {\n",}
            vertical-align: top;\n",
         }\n",
     "\n",
         .dataframe thead th \{\n'',
     **
            text-align: right; \n",
         }\n",
     "</style>\n",
     "\n",
       <thead>\n'',
         \n",
           \n",
     "
           v1\n",
     "
          v2\n",
     "
          Unnamed: 2\n",
          Unnamed: 3\n",
     **
           Unnamed: 4\n",
     **
         \n",
     "
       </thead>\n",
       \n",
     **
         \n",
     **
          0\n",
          ham\n",
          Go until jurong point, crazy.. Available only in bugis
n great world la e buffet... Cine there got amore wat...
          NaN\n",
     "
          NaN\n"
     "
          NaN\n",
         \n",
     "
         \n",
     **
          1\n",
          ham\n",
          Ok lar... Joking wif u oni...
     **
          NaN\n",
     **
          NaN\n",
     "
          NaN\n",
         \n",
     "
         \n",
     "
          2\n",
           spam\n",
           Free entry in 2 a wkly comp to win FA Cup final tkts
21st May 2005. Text FA to 87121 to receive entry question(std txt
rate) T& C's apply 08452810075 over 18's
```

```
"
          NaN\n",
           NaN\n",
           NaN\n",
      "
         \n",
      **
         \n",
           3\n",
           ham\n",
     **
           U dun say so early hor... U c already then
say...\n",
         NaN\n",
     **
           NaN\n"
      **
           NaN\n",
     **
         \n",
     "
         \n",
           4\n",
           ham\n",
           Nah I don't think he goes to usf, he lives around here
though\n",
           NaN\n",
      11
           NaN\n",
     **
           NaN\n",
         \n",
     " \n",
     "\n",
     "</div>"
     ],
     "text/plain": [
     **
         v1 \\\n",
     "0 ham
              \n",
     "1 ham
              \n",
     "2 spam \n",
     "3 ham
            \n",
     "4 ham
             \n",
     "\n",
v2 \\\n",
     "O Go until jurong point, crazy.. Available only in bugis n great
world la e buffet... Cine there got amore wat...
     "1 Ok lar... Joking wif u
oni...
\n",
      "2 Free entry in 2 a wkly comp to win FA Cup final tkts 21st May
2005. Text FA to 87121 to receive entry question(std txt rate) T&C's apply
08452810075over18's
                 \n",
      "3 U dun say so early hor... U c already then say...
\n",
     "4 Nah I don't think he goes to usf, he lives around here
though
\n",
      "\n",
      " Unnamed: 2 Unnamed: 3 Unnamed: 4 \n",
     "0 NaN
                NaN
                         NaN
                                     \n",
      "1 NaN
                           NaN
                 NaN
                                    \n",
      "2 NaN
                 NaN
                          NaN
                                    \n",
     "3 NaN
                                    \n",
                 NaN
                          NaN
     "4 NaN
                 NaN
                          NaN
     1
```

```
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   "data.head()"
  ]
  },
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   "metadata": {
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     "exception": false,
     "start time": "2022-10-25T06:57:22.770370",
     "status": "completed"
    },
    "tags": []
   },
   "outputs": [
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     "output_type": "stream",
     "text": [
     "\u001b[2m\u001b[1m\u001b[32m\n",
      "OPERATIONS ON DATASETS WERE SUCCESFULLY COMPLETED...\u001b[0m\n"
    ]
   }
   ],
   "source": [
    "#rename dataset columns\n",
    "data.rename(columns = {\"v1\": \"target\", \"v2\": \"text\"},
inplace = True) \n",
    "#drop unnecessary columns\n",
    "data.drop([\"Unnamed: 2\",\"Unnamed: 3\", \"Unnamed: 4\"], axis = 1,
inplace = True) \n",
    "\n",
    "print(colored(\"\\nOPERATIONS ON DATASETS WERE SUCCESFULLY
COMPLETED...\", color = \"green\", attrs = [\"bold\", \"dark\"]))"
 },
  "cell type": "code",
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   "metadata": {
```

```
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    "end time": "2022-10-25T06:57:22.835489",
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    "status": "completed"
   "tags": []
  },
  "outputs": [
    "data": {
     "text/html": [
      <div>\n",
      "<style scoped>\n",
          .dataframe tbody tr th:only-of-type {\n",
             vertical-align: middle; \n",
      **
          }\n",
      "\n",
          .dataframe tbody tr th {\n",
             vertical-align: top;\n",
      11
          }\n",
      "\n",
      "
          .dataframe thead th {\n",
             text-align: right; \n",
      11
          }\n",
      "</style>\n",
      "\n",
        <thead>\n",
          \n",
      **
            \n",
      "
            target\n",
            text\n",
      **
         \n",
      **
        </thead>\n",
        \n",
      "
          \n",
            0\n",
            ham\n",
            Go until jurong point, crazy.. Available only in bugis
n great world la e buffet... Cine there got amore wat...
          \n",
      "
          \n",
      **
           1\n",
      "
            ham\n",
            Ok lar... Joking wif u oni...\n",
      **
          \n",
      "
          \n",
            2\n",
            spam\n",
```

```
Free entry in 2 a wkly comp to win FA Cup final tkts
21st May 2005. Text FA to 87121 to receive entry question(std txt
rate) T& C's apply 08452810075over18's
</rr>
         \n",
      **
          \n",
      "
            3\n",
            ham\n",
            U dun say so early hor... U c already then
say...\n",
          \n",
      **
          \n",
           4\n",
      **
            ham\n",
           Nah I don't think he goes to usf, he lives around here
though\n",
      **
          \n",
      " \n",
      </table>\n",
      "</div>"
     ],
     "text/plain": [
      " target \\\n",
      "0 ham
                \n",
      "1 ham
                 \n",
      "2 spam
                \n",
      "3 ham
                \n",
      "4 ham
                 \n",
      "\n",
text \n",
      "0 Go until jurong point, crazy.. Available only in bugis n great
world la e buffet... Cine there got amore wat...
      "1 Ok lar... Joking wif u
oni...
\n",
      "2 Free entry in 2 a wkly comp to win FA Cup final tkts 21st May
2005. Text FA to 87121 to receive entry question(std txt rate)T&C's apply
08452810075over18's \n",
      "3 U dun say so early hor... U c already then say...
\n",
      "4 Nah I don't think he goes to usf, he lives around here
though
    ]
    } ,
    "execution count": 5,
    "metadata": {},
    "output_type": "execute_result"
   }
  ],
  "source": [
   "data.head()"
  ]
 },
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  "execution count": 6,
```

```
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  "iopub.status.idle": "2022-10-25T06:57:22.877346Z",
  "shell.execute reply": "2022-10-25T06:57:22.875820Z"
  "papermill": {
  "duration": 0.034605,
   "end time": "2022-10-25T06:57:22.880639",
  "exception": false,
  "start time": "2022-10-25T06:57:22.846034",
  "status": "completed"
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  "output_type": "stream",
   "text": [
   "<class 'pandas.core.frame.DataFrame'>\n",
   "RangeIndex: 5572 entries, 0 to 5571\n",
   "Data columns (total 2 columns):\n",
   " # Column Non-Null Count Dtype \n",
   "--- \n",
   " 0 target 5572 non-null object\n",
   " 1 text 5572 non-null object\n",
   "dtypes: object(2)\n",
   "memory usage: 87.2+ KB\n"
  1
 }
],
 "source": [
 "data.info(memory usage = True, verbose = True)"
},
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"execution count": 7,
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 "metadata": {
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  "iopub.status.idle": "2022-10-25T06:57:22.914979Z",
  "shell.execute reply": "2022-10-25T06:57:22.913596Z"
 },
  "papermill": {
  "duration": 0.025212,
  "end time": "2022-10-25T06:57:22.917135",
  "exception": false,
  "start_time": "2022-10-25T06:57:22.891923",
  "status": "completed"
 "tags": []
},
```

```
"outputs": [
     "name": "stdout",
     "output_type": "stream",
     "text": [
     "\u001b[2m\u001b[1m\u001b[32mThere are 403 duplicated values in the
dataset\u001b[0m\n"
    1
    }
   ],
   "source": [
    "print(colored(\"There are {} duplicated values in the
dataset\".format(data.duplicated().sum()), color = \"green\", attrs =
[\"bold\", \"dark\"]))"
  ]
  },
  {
  "cell_type": "code",
   "execution count": 8,
   "id": "8366d31d",
   "metadata": {
    "execution": {
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     "iopub.status.busy": "2022-10-25T06:57:22.939912Z",
     "iopub.status.idle": "2022-10-25T06:57:22.951016Z",
     "shell.execute reply": "2022-10-25T06:57:22.949690Z"
    },
    "papermill": {
     "duration": 0.025662,
     "end time": "2022-10-25T06:57:22.953420",
    "exception": false,
     "start time": "2022-10-25T06:57:22.927758",
    "status": "completed"
    "tags": []
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   "outputs": [
    "name": "stdout",
     "output type": "stream",
     "text": [
      "\u001b[2m\u001b[1m\u001b[32m\n",
      "DUPLICATED VALUES WERE SUCCESFULLY DROPPED...\u001b[0m\n"
     1
   }
   ],
   "source": [
    "data.drop duplicates(inplace = True) \n",
    "print(colored(\"\\nDUPLICATED VALUES WERE SUCCESFULLY DROPPED...\",
color = \"green\", attrs = [\"bold\", \"dark\"]))"
  1
  },
  "cell type": "code",
  "execution count": 9,
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   "metadata": {
```

```
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  "iopub.status.idle": "2022-10-25T06:57:22.987356Z",
  "shell.execute reply": "2022-10-25T06:57:22.986267Z"
  "papermill": {
  "duration": 0.025566,
   "end time": "2022-10-25T06:57:22.989684",
   "exception": false,
   "start time": "2022-10-25T06:57:22.964118",
  "status": "completed"
 "tags": []
} ,
 "outputs": [
  "data": {
   "text/plain": [
     "target\n",
     "ham 4516\n",
     "spam
            653 \n",
     "Name: text, dtype: int64"
   1
  } ,
  "execution count": 9,
   "metadata": {},
   "output type": "execute result"
 }
],
"source": [
 "grouped target = data.groupby(\"target\").count()\n",
 "grouped_target[\"text\"]"
]
},
"cell type": "code",
"execution count": 10,
"id": "f090a982",
"metadata": {
 "execution": {
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  "iopub.status.busy": "2022-10-25T06:57:23.012702Z",
   "iopub.status.idle": "2022-10-25T06:57:23.022896Z",
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  "duration": 0.024597,
  "end time": "2022-10-25T06:57:23.025255",
  "exception": false,
  "start time": "2022-10-25T06:57:23.000658",
  "status": "completed"
 },
 "tags": []
 "outputs": [
  "data": {
```

```
"text/plain": [
             0\n",
     "target
     "text
               0\n",
     "dtype: int64"
   },
   "execution count": 10,
   "metadata": {},
   "output type": "execute result"
],
 "source": [
 "data.isnull().sum()"
},
"cell type": "code",
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 "metadata": {
 "execution": {
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   "iopub.status.idle": "2022-10-25T06:57:23.270177Z",
   "shell.execute reply": "2022-10-25T06:57:23.269285Z"
  "papermill": {
  "duration": 0.236181,
  "end time": "2022-10-25T06:57:23.272320",
  "exception": false,
   "start time": "2022-10-25T06:57:23.036139",
  "status": "completed"
 "tags": []
 "outputs": [
   "data": {
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{{\n",
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     " >>> nltk.download('omw-1.4')\n",
     "\u001b[0m\n",
     " For more information see: https://www.nltk.org/data.html\n",
     "\n",
     " Attempted to load \u001b[93mcorpora/omw-1.4\u001b[0m\n",
     "\n",
       Searched in: \n",
     **
         - '/root/nltk data'\n",
     "
         - '/opt/conda/nltk data'\n",
         - '/opt/conda/share/nltk data'\n",
     11
         - '/opt/conda/lib/nltk data'\n",
     11
         - '/usr/share/nltk_data'\n",
         - '/usr/local/share/nltk data'\n",
         - '/usr/lib/nltk data'\n",
         - '/usr/local/lib/nltk data'\n",
"\n"
    ]
   },
    "ename": "MissingCorpusError",
    "evalue": "\nLooks like you are missing some required data for this
feature.\n\nTo download the necessary data, simply run\n python -m
textblob.download corpora\n\nor use the NLTK downloader to download the
missing data: http://nltk.org/data.html\nIf this doesn't fix the problem,
file an issue at https://github.com/sloria/TextBlob/issues.\n",
    "output type": "error",
    "traceback": [
     "\u001b[0;31m------
 ----\u001b[0m",
     "\u001b[0;31mLookupError\u001b[0m
Traceback (most recent call last)",
     "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/nltk/corpus/util.py\u001b[0m in
\u001b[0;36m\ load\u001b[0;34m(self)\u001b[0m\n\u001b[1;32m])
```

```
83\u001b[0m
\u001b[0;32mtry\u001b[0m\u001b[0;34m:\u001b[0m\u001b[0;34m\u001b[0m\u001b
[0;34m\u001b[0m\u001b[0m\n\u001b[0;32m---> 84\u001b[0;31m
\u001b[0mroot\u001b[0m \u001b[0;34m=\u001b[0m
\u001b[0mnltk\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0mdata\u001b[0m\u001b[
0;34m.\u001b[0m\u001b[0mfind\u001b[0m\u001b[0;34m(\u001b[0m\u001b[0;34mf\u001b]0m\u001b]0;34mf\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b[0m\u001b]0m\u001b
"{self.subdir}/{zip name}\"\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m\u0
01b[0m\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[0m\u001b[1;32m
                                                              \u001b[0;32mexcept\u001b[0m
85\u001b[0m
\u001b[0mLookupError\u001b[0m\u001b[0;34m:\u001b[0m\u001b[0;34m\u001b[0m\
u001b[0;34m\u001b[0m\u001b[0m\n",
              "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/nltk/data.py\u001b[0m in
\u001b[0;36mfind\u001b[0;34m(resource name, paths)\u001b[0m\n\u001b[1;32m
582\u001b[0m
                                      \u001b[0mresource not found\u001b[0m
\u001b[0;34m=\u001b[0m
\u001b[0;34mf\"\n\{sep}\n\{sep\}\n\"\u001b[0m\u001b[0;34m\u001b[0]]
m\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[0;32m--> 583\u001b[0;31m
\u001b[0;32mraise\u001b[0m
\u001b[0mLookupError\u001b[0m\u001b[0;34m(\u001b[0m\u001b[0mresource not
found\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0]
1b[0m\u001b[0m\n\u001b[0m\u001b[1;32m]
                                                                                         584\u001b[0m
\u001b[0;34m\u001b[0m\u001b[0m\n",
             "\u001b[0;31mLookupError\u001b[0m:
\n************************
n Resource \u001b[93momw-1.4\u001b[0m not found.\n Please use the NLTK
https://www.nltk.org/data.html\n\n Attempted to load
\u001b[93mcorpora/omw-1.4.zip/omw-1.4/\u001b[0m\n\ Searched in:\n\ ]
'/root/nltk data'\n - '/opt/conda/nltk data'\n
'/usr/share/nltk data'\n - '/usr/local/share/nltk data'\n
'/usr/lib/nltk data'\n
'/usr/local/lib/nltk data'\n*********************************
*******************\n",
             "\nDuring handling of the above exception, another exception
occurred:\n",
             "\u001b[0;31mLookupError\u001b[0m
Traceback (most recent call last)",
             "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/textblob/decorators.py\u001b[0m in
\u001b[0;36mdecorated\u001b[0;34m(*args, **kwargs)\u001b[0m\n\u001b[1;32m
34\u001b[0m
\u001b[0;32mtry\u001b[0m\u001b[0;34m:\u001b[0m\u001b[0;34m\u001b[0m\u001b
[0;34m\u001b[0m\u001b[0m\n\u001b[0;32m---> 35\u001b[0;31m]]]
\u001b[0;32mreturn\u001b[0m
\u001b[0mfunc\u001b[0m\u001b[0;34m(\u001b[0m\u001b[0;34m*\u001b[0m\u001b[
Omargs\u001b[0m\u001b[0;34m,\u001b[0m
\u001b[0;34m**\u001b[0m\u001b[0mkwargs\u001b[0m\u001b[0;34m)\u001b[0m\u00
1b[0;34m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u
36\u001b[0m
                                            \u001b[0;32mexcept\u001b[0m
\u001b[0mLookupError\u001b[0m \u001b[0;32mas\u001b[0m
\u001b[0merr\u001b[0m\u001b[0;34m:\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;
34m\u001b[0m\u001b[0m\n",
             "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/textblob/blob.py\u001b[0m in
\u001b[0;36mlemmatize\u001b[0;34m(self, pos)\u001b[0m\n\u001b[1;32m
```

```
160\u001b[0m
                                               \u001b[0;32mif\u001b[0m \u001b[0mpos\u001b[0m
\u001b[0;32mis\u001b[0m
\u001b[0;32mNone\u001b[0m\u001b[0;34m:\u001b[0m\u001b[0;34m\u001b[0m\u001
b[0;34m\u001b[0m\u001b[0m\n\u001b[0;32m--> 161\u001b[0;31m
\u001b[0mtag\u001b[0m \u001b[0;34m=\u001b[0m
\u001b[0m wordnet\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0mNOUN\u001b[0m\u0
01b[0;34m\u001b[0m\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[0m\u001b[1;32m
162\u001b[0m
                                               \u001b[0;32melif\u001b[0m \u001b[0mpos\u001b[0m
\u001b[0;32min\u001b[0m
\u001b[0m wordnet\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0m FILEMAP\u001b[0
m\u001b[0;34m.\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0]34m(\u001b[0m\u001b[0m\u001b[0]34m])]])
[0;34m)\u001b[0m\u001b[0;34m:\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u
001b[0m\u001b[0m\n",
              "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/nltk/corpus/util.py\u001b[0m in
\u001b[0;36m getattr \u001b[0;34m(self, attr)\u001b[0m\n\u001b[1;32m
120 \u001b \[0m] \u001b \[0;34m \u001b \[0m] \u001b \[0m] \u001b \[0;32m-->
121\u001b[0;31m
\u001b[0mself\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0m load\u001b[0m\u001
b[0;34m(\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m\u\overline{00}]b[0m\u001b[0;34m]
u001b[0m\u001b[0m\n\u001b[0m\u001b[1;32m]
                                                                                                   122\u001b[0m
\u001b[0;31m# This looks circular, but its not, since load() changes
our\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0;34m\u001b[0];34m\u001b[
0m\u001b[0m\n",
              "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/nltk/corpus/util.py\u001b[0m in
\u001b[0;36m load\u001b[0;34m(self)\u001b[0m\n\u001b[1;32m
                                             \u001b[0;31m\# Load the
88\u001b[0m
corpus.\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001
01b[0m\u001b[0m\n\u001b[0;32m---> 89\u001b[0;31m
\u001b[0mcorpus\u001b[0m \u001b[0;34m=\u001b[0m
\u001b[0mself\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0m reader cls\u001b[0
m\u001b[0;34m(\u001b[0m\u001b[0mroot\u001b[0m\u001b[0;34m,\u001b[0m
\u001b[0;34m*\u001b[0m\u001b[0mself\u001b[0m\u001b[0;34m.\u001b[0m\u001b[
Om args\u001b[0m\u001b[0;34m,\u001b[0m
\u001b[0;34m**\u001b[0m\u001b[0mself\u001b[0m\u001b[0;34m.\u001b[0m\u001b]]]]
[0m kwargs\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;3
4m\u001b[0m\u001b[0m\n\u001b[0m\u001b[1;32m 90\u001b[0m
\u001b[0;34m\u001b[0m\u001b[0m\n",
              "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/nltk/corpus/reader/wordnet.py\u001b[0m in
\u001b[0;36m init \u001b[0;34m(self, root,
omw reader) \sqrt{u001b}[\overline{0m}]n\u001b[1;32m]
                                                                                1175\u001b[0m
\u001b[0;32melse\u001b[0m\u001b[0;34m:\u001b[0m\u001b[0;34m\u001b[0m\u001
b[0;34m\u001b[0m\u001b[0m\n\u001b[0;32m-> 1176\u001b[0;31m
\u001b[0;34m=\u001b[0m]
\u001b[0mself\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0momw prov\u001b[0m\u001b[0m\u001b]]]]
01b[0;34m(u001b[0mu001b[0;34m)u001b[0mu001b[0;34m)u001b[0;34m]u001b[0m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b[0;34m]u001b
m\u001b[0m\u001b[0m\n\u001b[0m\u001b[1;32m]
                                                                                                     1177\u001b[0m
\u001b[0;34m\u001b[0m\u001b[0m\n",
             "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/nltk/corpus/reader/wordnet.py\u001b[0m in
\u001b[0;36momw prov\u001b[0;34m(self)\u001b[0m\n\u001b[1;32m
1284\u001b[0m
\u001b[0mprovdict\u001b[0m\u001b[0;34m[\u001b[0m\u001b[0;34m\"eng\"\u001b
[0m\u001b[0;34m]\u001b[0m\u001b[0;34m=\u001b[0m]]]
\u001b[0;34m\"\"\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0m\u001b
```

```
[0m\n\u001b[0;32m-> 1285\u001b[0;31m]]
                                                                                                                     \u001b[0mfileids\u001b[0m
\u001b[0;34m=\u001b[0m]
\u001b[0mself\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0m omw reader\u001b[0m
\u001b[0;34m.\u001b[0m\u001b[0mfileids\u001b[0m\u001b[0;34m.\u001b[0m\u001b]]])
1b[0;34m) \u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0;34m\u001b]]]]
001b[0m\u001b[1;32m
                                                        1286\u001b[0m
                                                                                                                  \u001b[0;32mfor\u001b[0m
\u001b[0mfileid\u001b[0m \u001b[0;32min\u001b[0m
\u001b[0mfileids\u001b[0m\u001b[0;34m:\u001b[0m\u001b[0;34m\u001b[0m\u001
b[0;34m\u001b[0m\u001b[0m\n",
                "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/nltk/corpus/util.py\u001b[0m in
\u001b[0;36m\_getattr\_\u001b[0;34m(self, attr)\u001b[0m\n\u001b[1;32m])
120\u001b[0m \u001b[0;34m\u001b[0m\u001b[0m\n\u001b[0;32m-->
121\u001b[0;31m
\u001b[0mself\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0m load\u001b[0m\u001
b[0;34m(\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\
u001b[0m\u001b[0m\n\u001b[0m\u001b[1;32m
                                                                                                                  122\u001b[0m
\u001b[0;31m# This looks circular, but its not, since __load() changes
our\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0;34m\u001b[0];34m\u001b[
0m\u001b[0m\n",
                "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/nltk/corpus/util.py\u001b[0m in
\u001b[0;36m load\u001b[0;34m(self)\u001b[0m\n\u001b[1;32m]
                                                                         \u001b[0;32mexcept\u001b[0m
\u001b[0mLookupError\u001b[0m\u001b[0;34m:\u001b[0m\u001b[0;34m\u001b[0m\
u001b[0;34m]u001b[0m]u001b[0m]n]u001b[0;32m---> 86]u001b[0;31m]
\u001b[0;32mraise\u001b[0m
\u001b[0me\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u001b[0m\n\u]]]]]
u001b[0m\u001b[1;32m
                                                                 87\u001b[0m\u001b[0;34m\u001b[0m\u001b[0m\n",
                "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/nltk/corpus/util.py\u001b[0m in
\u001b[0;36m load\u001b[0;34m(self)\u001b[0m\n\u001b[1;32m
80\u001b[0m
\u001b[0;32mtry\u001b[0m\u001b[0;34m:\u001b[0m\u001b[0;34m\u001b[0m\u001b
[0;34m\u001b[0m\u001b[0m\n\u001b[0;32m---> 81\u001b[0;31m]]]
\u001b[0mroot\u001b[0m \u001b[0;34m=\u001b[0m
\u001b[0mnltk\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0mdata\u001b[0m\u001b[
0;34m.\u001b[0m\u001b[0m\u001b[0m\u001b[0;34m(\u001b[0m\u001b[0;34mf\u001b[0])])]
"{self.subdir}/{self. name}\"\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m]
\u001b[0m\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[0m\u001b[1;32m
                                                               \u001b[0;32mexcept\u001b[0m
82\u001b[0m
\u001b[0mLookupError\u001b[0m \u001b[0;32mas\u001b[0m
\u001b[0me\u001b[0m\u001b[0;34m:\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34
m\u001b[0m\u001b[0m\n",
                "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/nltk/data.py\u001b[0m in
\u001b[0;36mfind\u001b[0;34m(resource name, paths)\u001b[0m\n\u001b[1;32m
582\u001b[0m
                                            \u001b[0mresource not found\u001b[0m
\u001b[0;34m=\u001b[0m]
\u001b[0;34mf"\\n{sep}\\n{sep}\\n{sep}\\n{msg}\\n{sep}\\n{msg}\\n{sep}\\n{msg}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}\\n{sep}
m\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[0;32m--> 583\u001b[0;31m
\u001b[0;32mraise\u001b[0m
\u001b[0mLookupError\u001b[0m\u001b[0;34m(\u001b[0m\u001b[0mresource not
found\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u001b]0m\u001b[0;34m\u0
1b[0m\u001b[0m\n\u001b[0m\u001b[1;32m 584\u001b[0m
\u001b[0;34m\u001b[0m\u001b[0m\n",
                "\u001b[0;31mLookupError\u001b[0m:
```

```
n Resource \u001b[93momw-1.4\u001b[0m not found.\n Please use the NLTK
Downloader to obtain the resource:\n\n \u001b[31m>>> import nltk\n >>>
nltk.download('omw-1.4')\n \u001b[0m\n For more information see:
https://www.nltk.org/data.html\n\n Attempted to load
\u001b[93mcorpora/omw-1.4\u001b[0m\n\n Searched in:\n
                      - '/opt/conda/nltk data'\n
'/root/nltk data'\n
'/opt/conda/share/nltk data'\n
                                 - '/opt/conda/lib/nltk data'\n
'/usr/share/nltk data'\n
                            - '/usr/local/share/nltk data'\n
'/usr/lib/nltk data'\n
'/usr/local/lib/nltk data'\n*********************************
**********************
      "\nDuring handling of the above exception, another exception
occurred:\n",
      "\u001b[0;31mMissingCorpusError\u001b[0m
Traceback (most recent call last)",
      "\u001b[0;32m/tmp/ipykernel 19/81629729.py\u001b[0m in
\u001b[0;36m<module>\u001b[0;34m\u001b[0m\n\u001b[0;32m---->
1\u001b[0;31m
\u001b[0mdata\u001b[0m\u001b[0;34m[\u001b[0m\u001b[0m\u001b[0];34m\"text\"\u001b[0m
\u001b[0;34m]\u001b[0m \u001b[0;34m=\u001b[0m
\u001b[0mdata\u001b[0m\u001b[0;34m[\u001b[0m\u001b[0;34m\"text\"\u001b[0m
\u001b[0;34m]\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0mapply\u001b[0m\u001b]]]
[0;34m(\u001b[0m\u001b[0;32mlambda\u001b[0m
\u001b[0mx\u001b[0m\u001b[0;34m:\u001b[0m \u001b[0;34m\"
\"\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0mjoin\u001b[0m\u001b[0;34m(\u001
b[0m\u001b[0;34m[\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0;34m(\u001b[0m\u0
01b[0mword\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0m]
emmatize\\u001b[0m\\u001b[0;34m(u001b[0m\\u001b[0;34m)\\u001b[0m]
\u001b[0;32mfor\u001b[0m \u001b[0mword\u001b[0m \u001b[0;32min\u001b[0m
\u001b[0mx\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0msplit\u001b[0m\u001b[0;
34m(\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m]\u001b[0m\u001b[0;34m)\u0
01b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0m\u001b]]]]
                                   2\u001b[0m
01b[0m\n\u001b[0m\u001b[1;32m
\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[1;32m
                                                  3\u001b[0m
\u001b[0mprint\u001b[0m\u001b[0;34m(\u001b[0m\u001b[0mcolored\u001b[0m\u0
01b[0;34m(\u001b[0m\u001b[0;34m\"\nTEXTS WERE SUCCESFULLY]]
LEMMATIZED...\"\u001b[0m\u001b[0;34m,\u001b[0m \u001b[0mcolor\u001b[0m
\u001b[0;34m=\u001b[0m
\u001b[0;34m\"green\"\u001b[0m\u001b[0;34m,\u001b[0m
\u001b[0mattrs\u001b[0m \u001b[0;34m=\u001b[0m
\u001b[0;34m[\u001b[0m\u001b[0;34m\"bold\"\u001b[0m\u001b[0;34m,\u001b[0m
\u001b[0;34m\"dark\"\u001b[0m\u001b[0;34m]\u001b[0m\u001b[0;34m)\u001b[0m\u001b]]
\u001b[0;34m)\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0m\u001b[0m
\n",
      "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/pandas/core/series.py\u001b[0m in
\u001b[0;36mapply\u001b[0;34m(self, func, convert dtype, args,
**kwargs)\u001b[0m\n\u001b[1;32m
                                   4355\u001b[0m
\u001b[0mdtype\u001b[0m\u001b[0;34m:\u001b[0m
\u001b[0mfloat64\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b]]]
                                          \"\"\n\u001b[0;32m->
[0m\n\u001b[1;32m 4356\u001b[0m]]
4357\u001b[0;31m
                         \u001b[0;32mreturn\u001b[0m
\u001b[0mSeriesApply\u001b[0m\u001b[0;34m(\u001b[0m\u001b[0mself\u001b[0m
\u001b[0;34m,\u001b[0m \u001b[0mfunc\u001b[0m\u001b[0;34m,\u001b[0m
\u001b[0mconvert dtype\u001b[0m\u001b[0;34m,\u001b[0m
\u001b[0margs\u001b[0m\u001b[0;34m,\u001b[0m
\u001b[0mkwargs\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m.\u001b[0m\u001
b[Omapply\u001b[Om\u001b[O;34m(\u001b[Om\u001b[O;34m)\u001b[Om\u001b[O;34
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m\u001b[0m\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[0m\u001b[];32m
4358\u001b[0m \u001b[0;34m\u001b[0m\u001b[0m\n\u001b[1;32m
                                        def _reduce(\n",
4359\u001b[0m
             "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/pandas/core/apply.py\u001b[0m in
\u001b[0;36mapply\u001b[0;34m(self)\u001b[0m\n\u001b[1;32m])
1041\u001b[0m
                                                          \u001b[0;32mreturn\u001b[0m
\u001b[0mself\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0mapply str\u001b[0m\u]]]
001b[0;34m(\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;3
4m\u001b[0m\u001b[0m\n\u001b[1;32m
                                                                                  1042\u001b[0m
\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[0;32m-> 1043\u001b[0;31m
\u001b[0;32mreturn\u001b[0m
\u001b[0mself\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0mapply standard\u001b]]]
[0m\u001b[0;34m(\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m\u001b[0m\u001b]]]]]
b[0;34m\u001b[0m\u001b[0m\n\u001b[0m\u001b[1;32m]
                                                                                                                  1044\u001b[0m
\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[1;32m
                                                                                                        1045\u001b[0m
\u001b[0;32mdef\u001b[0m
\u001b[0magg\u001b[0m\u001b[0;34m(\u001b[0m\u001b[0mself\u001b[0m\u001b[0
;34m)\u001b[0m\u001b[0;34m:\u001b[0m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b[0;34m\u001b
1b[0m\u001b[0m\n",
             "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/pandas/core/apply.py\u001b[0m in
\u001b[0;36mapply standard\u001b[0;34m(self)\u001b[0m\n\u001b[1;32m
1099\u001b[0m
\u001b[0mvalues\u001b[0m\u001b[0;34m,\u001b[0m\u001b[0;34m\u001b[0m\u001b
[0;34m\u001b[0m\u001b[0m\n\u001b[1;32m
                                                                                        1100\u001b[0m
\u001b[0mf\u001b[0m\u001b[0;34m,\u001b[0m \u001b[0;31m# type:
ignore[arg-
type]\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0m\u001b[0m\u001b]
[0;32m-> 1101\u001b[0;31m
\u001b[0mconvert\u001b[0m\u001b[0;34m=\u001b[0m\u001b[0mself\u001b[0m\u001b]
1b[0;34m.\u001b[0m\u001b[0mconvert dtype\u001b[0m\u001b[0;34m,\u001b[0m\u
001b[0;34m\u001b[0m\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[0m\u001b[1;32m
1102\u001b[0m
                                                                   )\n\u001b[1;32m 1103\u001b[0m
\u001b[0;34m\u001b[0m\u001b[0m\n",
             "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/pandas/ libs/lib.pyx\u001b[0m in
\u001b[0;36mpandas. libs.lib.map infer\u001b[0;34m()\u001b[0m\n",
             "\u001b[0;32m/tmp/ipykernel 19/81629729.py\u001b[0m in
\u001b[0;36m<lambda>\u001b[0;34m(x)\u001b[0m\n\u001b[0;32m--->
1\u001b[0;31m
\u001b[0mdata\u001b[0m\u001b[0;34m[\u001b[0m\u001b[0;34m\"text\"\u001b[0m
\u001b[0;34m]\u001b[0m \u001b[0;34m=\u001b[0m
\u001b[0mdata\u001b[0m\u001b[0;34m[\u001b[0m\u001b[0;34m\"text\"\u001b[0m
\u001b[0;34m]\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0mapply\u001b[0m\u001b
[0;34m(\u001b[0m\u001b[0;32mlambda\u001b[0m
\u001b[0mx\u001b[0m\u001b[0;34m:\u001b[0m \u001b[0;34m\"
\"\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0mjoin\u001b[0m\u001b[0;34m(\u001
b[0m\u001b[0;34m[\u001b[0m\u001b[0m\u001b[0m\u001b[0m\u001b[0;34m(\u001b[0m\u0
01b[0mword\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0ml
emmatize\\u001b[0m\\u001b[0;34m(\\u001b[0m\\u001b[0;34m)\\u001b[0m
\u001b[0;32mfor\u001b[0m \u001b[0mword\u001b[0m \u001b[0;32min\u001b[0m
\u001b[0mx\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0msplit\u001b[0m\u001b[0;
34m(\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m]\u001b[0m\u001b[0;34m)\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34m]\u001b[0;34
01b[0m\u001b[0;34m)\u001b[0m\u001b[0;34m\u001b[0m\u001b[0m\u001b[0];34m\u001b[0m\u0
01b[0m\n\u001b[0m\u001b[1;32m]
                                                                              2\u001b[0m
\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[1;32m
                                                                                                                3\u001b[0m
\u001b[0mprint\u001b[0m\u001b[0;34m(\u001b[0m\u001b[0mcolored\u001b[0m\u0
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01b[0;34m(\u001b[0m\u001b[0;34m\"\\nTEXTS WERE SUCCESFULLY
LEMMATIZED...\"\u001b[0m\u001b[0;34m,\u001b[0m \u001b[0mcolor\u001b[0m
 \u001b[0;34m=\u001b[0m
 \u001b[0;34m\"green\"\u001b[0m\u001b[0;34m,\u001b[0m
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 \u001b[0;34m)\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0m\u001b[0m\u001b[0m
 \n",
                           "\u001b[0;32m/tmp/ipykernel 19/81629729.py\u001b[0m in
 \u001b[0;36m<listcomp>\u001b[0;34m(.0)\u001b[0m\n\u001b[0;32m---->
1\u001b[0;31m
 \label{local-condition} $$ \u001b[0m\lambdau001b[0;34m]\u001b[0m\lambdau001b[0;34m]\u001b[0m\lambdau001b]] = \u001b[0m\lambdau001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b] = \u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b] = \u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u001b[0m\lambdau001b]\u
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 \n",
                           "\u001b[0;32m/opt/conda/lib/python3.7/site-
packages/textblob/decorators.py\u001b[0m in
 \u001b[0;36mdecorated\u001b[0;34m(*args, **kwargs)\u001b[0m\n\u001b[1;32m
                                                                                        \u001b[0;32mexcept\u001b[0m
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 \u001b[0mLookupError\u001b[0m \u001b[0;32mas\u001b[0m
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1b[1;32m
                                                         39\u001b[0m
 \u001b[0mdecorated\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0m\u001b]
1b[0m\n",
                           "\u001b[0;31mMissingCorpusError\u001b[0m: \nLooks like you are
missing some required data for this feature.\n\nTo download the necessary
```

python -m textblob.download corpora\n\nor use the

data, simply run\n\n

NLTK downloader to download the missing data:

```
http://nltk.org/data.html\nIf this doesn't fix the problem, file an issue
at https://github.com/sloria/TextBlob/issues.\n"
     1
    }
   ],
   "source": [
    "data[\"text\"] = data[\"text\"].apply(lambda x: \"
\".join([Word(word).lemmatize() for word in x.split()]))\n",
    "print(colored(\"\\nTEXTS WERE SUCCESFULLY LEMMATIZED...\", color =
\"green\", attrs = [\"bold\", \"dark\"]))"
   1
  },
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     "start time": null,
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    },
    "tags": []
   } ,
   "outputs": [],
   "source": [
    "data[\"text\"] = data[\"text\"].apply(lambda x: \"
\".join(re.sub(r'http\\S+', '', x) for x in x.split()))\n",
    "\n",
    "print(colored(\"\\nURLs WERE SUCCESFULLY REMOVED...\", color =
\"green\", attrs = [\"bold\", \"dark\"]))"
   ]
  },
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```

```
"status": "pending"
    },
    "tags": []
   "outputs": [],
   "source": [
    "data[\"text\"] = data[\"text\"].apply(lambda x: ' '.join([x for x in
x.split() if len(x) > 3])) n",
    "print(colored(\"\\nWORDS LESS THAN 3 LETTERS LONG WERE SUCCESFULLY
REMOVED...\", color = \"green\", attrs = [\"bold\", \"dark\"]))"
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   "outputs": [],
   "source": [
   "data.head(n = 10)"
   ]
  },
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   } ,
```

```
"outputs": [],
"source": [
 "corpus = [] \n",
 "for i in data.text:\n",
     for j in i.split():\n",
          corpus.append(j.strip())"
1
},
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"id": "7edc988c",
"metadata": {
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 } ,
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},
"outputs": [],
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 "counter = Counter(corpus)\n",
 "common words = counter.most common(15)\n",
 "dict(common words)"
]
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"id": "5c9eef54",
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  "start time": null,
  "status": "pending"
 },
 "tags": []
"outputs": [],
"source": [
 "text = \" \".join(i for i in data.text) \n",
```

```
"\n",
    "wc = WordCloud(background color = \"white\", width = 1200, height =
600,\n",
                     contour width = 0, contour color = \"#410F01\",
max\_words = 1000, \n",
                     scale = 1, collocations = False, repeat = True,
min font size = 1) \n",
    "\n",
    "wc.generate(text)\n",
    "\n",
    "plt.figure(figsize = [15, 7])\n",
    "plt.imshow(wc)\n",
    "plt.axis(\"off\")\n",
    "plt.show"
   ]
  },
  {
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   "execution count": null,
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   "metadata": {
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     "shell.execute reply.started": "2022-10-25T06:53:19.872177Z"
    },
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     "end time": null,
     "exception": null,
     "start time": null,
     "status": "pending"
    "tags": []
   } ,
   "outputs": [],
   "source": [
    "fig,ax = plt.subplots(figsize = (15, 8))\n",
    "text words = data[data[\"target\"] ==
\"spam"][\"text"].str.split().apply(lambda x : [len(i) for i in x])\n",
    "sns.distplot(text words.map(lambda x: np.mean(x)), color =
\"#410F01\", ax = ax). set title(\"Distribution of average word length in
texts where target is 'spam'\");"
   ]
  },
   "cell type": "code",
   "execution count": null,
   "id": "75067b3e",
   "metadata": {
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```

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     "exception": null,
     "start time": null,
     "status": "pending"
    "tags": []
   "outputs": [],
   "source": [
    "fig,ax = plt.subplots(figsize = (15, 8))\n",
    "text words = data[data[\"target\"] ==
\mbox{\mbox{"ham}"][\mbox{"text}"].str.split().apply(lambda <math>x : [len(i) \mbox{ for } i \mbox{ in } x])\mbox{\mbox{"n",}}
    "sns.distplot(text words.map(lambda x: np.mean(x)), color =
"#410F01", ax = ax).set title(\"Distribution of average word length in
texts where target is 'ham'\");"
  ]
  },
   "cell type": "code",
   "execution count": null,
   "id": "6026593a",
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     "exception": null,
     "start time": null,
     "status": "pending"
    },
    "tags": []
   "outputs": [],
   "source": [
    "lb = LabelEncoder() \n",
    "data[\"target\"] = lb.fit transform(data[\"target\"])"
   1
  },
   "cell type": "code",
   "execution count": null,
   "id": "f0774d71",
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```

```
"exception": null,
     "start time": null,
     "status": "pending"
    "tags": []
   },
   "outputs": [],
   "source": [
    "x = data[\"text\"] \n",
    "y = data[\"target\"]\n",
    "\n",
    "train x, test x, train y, test y = train test split(x, y, test size)
= 0.20, shuffle = True, random state = 11) n,
    "\n",
    "print(colored(\"\nDATASET WAS SUCCESFULLY DIVIDED ...\", color =
\"green\", attrs = [\"bold\", \"dark\"]))"
  ]
  },
  "cell type": "code",
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   "id": "c20\overline{2}7779",
   "metadata": {
    "execution": {
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     "shell.execute reply.started": "2022-10-25T06:53:19.881850Z"
    },
    "papermill": {
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    "end time": null,
     "exception": null,
     "start time": null,
    "status": "pending"
   },
   "tags": []
   "outputs": [],
   "source": [
   "print(\"The shape of 'train x' is {} and the shape of 'test x' is
{}\".format(train x.shape[0], test x.shape[0]))"
  ]
  },
  "cell type": "code",
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   "metadata": {
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     "end time": null,
```

```
"exception": null,
    "start time": null,
    "status": "pending"
   "tags": []
  },
  "outputs": [],
  "source": [
   "tokenizer = Tokenizer(num words = None) \n",
   "tokenizer.fit on texts(train x)\n",
   "tokenized train = tokenizer.texts to sequences(train x) \n",
   "tokenized test = tokenizer.texts to sequences(test x) n",
   "\n",
   "train x = \text{sequence.pad sequences} (tokenized train, maxlen = None) \n",
   "test x = sequence.pad sequences(tokenized test, maxlen = None)"
  ]
 },
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  "execution count": null,
  "id": "1ce9934b",
  "metadata": {
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     "shell.execute reply.started": "2022-10-25T06:53:19.886475Z"
   },
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    "end time": null,
    "exception": null,
    "start time": null,
    "status": "pending"
   },
   "tags": []
  "outputs": [],
  "source": [
   "GLOVE EMBEDDING = \"../input/glove-
twitter/glove.twitter.27B.100d.txt\""
  ]
 },
  "cell type": "code",
  "execution_count": null,
  "id": "43fa041f",
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```

```
"exception": null,
     "start time": null,
     "status": "pending"
    "tags": []
   },
   "outputs": [],
   "source": [
    "def get coefs(word, *arr):\n",
         return word, np.asarray(arr, dtype = \"float32\")\n",
    "embeddings index = dict(get coefs(*g.rstrip().rsplit(\" \")) for g
in open(GLOVE EMBEDDING))\n",
    "\n",
                  #\n",
    "\n",
                  #\n",
    <u>"\n"</u>,
    "embeddings = np.stack(embeddings index.values()) \n",
    "embedding mean, embedding std = embeddings.mean(),
embeddings.std()\n",
    "embedding size = embeddings.shape[1]\n",
    "word index = tokenizer.word index\n",
    "nb words = min(6012, len(word index))+1\n",
    "\n\",
    "embedding matrix = embedding matrix =
np.random.normal(embedding mean, embedding std, (nb words,
embedding size))\n",
    "for word, i in word index.items():\n",
         if i \ge 6012:\n'',
             continue\n",
    "
         embedding vector = embeddings index.get(word) \n",
    **
         if embedding vector is not None:\n",
    **
             embedding matrix[i] = embedding vector"
   ]
  },
   "cell type": "code",
   "execution count": null,
   "id": "1992a040",
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    },
```

```
"tags": []
   } ,
   "outputs": [],
   "source": [
   "lr reduce = ReduceLROnPlateau(monitor = \"val accuracy\", patience =
2, factor = 0.5, min lr = 0.00001)"
  },
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     "start time": null,
     "status": "pending"
    } ,
    "tags": []
   },
   "outputs": [],
   "source": [
    "model = Sequential()\n",
    "model.add(Embedding(6013, output dim = 100, weights =
[embedding matrix], trainable = False))\n",
    "\n",
    "model.add(LSTM(units = 128, return sequences = True,
recurrent dropout = 0.3, dropout = 0.5))\n",
    "\n",
    "model.add(LSTM(units = 64, recurrent dropout = 0.3, dropout =
0.5))\n'',
    "\n",
    "model.add(Dense(units = 32, activation = \"relu\"))\n",
    "model.add(Dense(1, activation = \"sigmoid\"))\n",
    "model.compile(optimizer = tf.keras.optimizers.Adam(lr = 0.01), loss
= \"binary crossentropy\", metrics = [\"accuracy\"])"
  },
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```

```
"shell.execute_reply.started": "2022-10-25T06:53:19.895539Z"
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   "start time": null,
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},
 "outputs": [],
 "source": [
  "model.summary()"
]
},
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 "metadata": {
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  "exception": null,
  "start time": null,
  "status": "pending"
  "tags": []
},
 "outputs": [],
 "source": [
  "history = model.fit(train x, n",
                        train y, n,
  "
                        batch size = 64, \n",
  "
                        validation data = (test x, test_y), n,
                        epochs = 2\overline{0}, \n",
                        callbacks = [lr reduce])"
]
},
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 "metadata": {
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     "start time": null,
    "status": "pending"
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   "outputs": [],
   "source": [
    "print(\"Model accuracy on the train set: \", model.evaluate(train x,
train_y)[1])\n",
    "print(\"Model accuracy on the test set: \", model.evaluate(test x,
test y)[1])"
  ]
  },
  {
   "cell type": "code",
   "execution count": null,
   "id": "d3e^{8}51d5",
   "metadata": {
    "execution": {
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    "exception": null,
     "start time": null,
    "status": "pending"
   "tags": []
   },
   "outputs": [],
   "source": [
    "epochs = [i for i in range(20)] \n",
    "\n",
    "fig, ax = plt.subplots(1, 2)\n",
    "train acc = history.history[\"accuracy\"]\n",
    "train loss = history.history[\"loss\"]\n",
    "val acc = history.history[\"val accuracy\"]\n",
    "val loss = history.history[\"val loss\"]\n",
    "fig.set size inches(20, 10)\n",
    "\n",
    "ax[0].plot(epochs, train_acc, \"go-\", label = \"Train
accuracy\")\n",
    "ax[0].plot(epochs, val acc, \"ro-\", label = \"Test accuracy\")\n",
    "ax[0].set title(\"Train and test accuracy\")\n",
    "ax[0].legend() \n",
    "ax[0].set xlabel(\"Epochs\")\n",
    "ax[0].set ylabel(\"Accuracy\")\n",
    "\n",
    "ax[1].plot(epochs, train loss, \"go-\", label = \"Train loss\")\n",
    "ax[1].plot(epochs, val loss, \"ro-\", label = \"Test loss\")\n",
    "ax[1].set title(\"Train and test loss\")\n",
```

```
"ax[1].legend() \n",
 "ax[1].set xlabel(\"Epochs\")\n",
 "ax[1].set_ylabel(\"Loss\") \n",
 "plt.show()"
]
},
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"id": "d71d3b3f",
 "metadata": {
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  "start time": null,
  "status": "pending"
 "tags": []
},
"outputs": [],
"source": [
 "prediction = model.predict(test x) \n",
 "classes pred = np.argmax(prediction, axis = 1)\n",
 "print(classification report(test y, classes pred))"
]
},
"cell type": "code",
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"id": "41dd7b09",
"metadata": {
 "execution": {
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