# ASSIGNMENT-4

| Name | RANJITH KUMAR.M |
|---|---|
| Register Number | 210519205040 |
| Team Size | 4 |
| Team ID | PNT2022TMID25119 |

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    "import matplotlib.pyplot as plt\n",

    "import csv\n",

    "import pandas\n",

    "import sklearn\n",

    "import pickle\n",

    "from wordcloud import WordCloud\n",

    "import pandas as pd\n",

    "import numpy as np\n",

    "import nltk\n",

    "from nltk.corpus import stopwords\n",

    "from sklearn.feature_extraction.text import CountVectorizer, TfidfTransformer\n",

    "from sklearn.tree import DecisionTreeClassifier \n",

    "from sklearn.learning_curve import learning_curve"

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    "## Preprocessing and Exploring the Dataset"

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"        <td>Go until jurong point, crazy.. Available only ...</td>\n",
"        <td>NaN</td>\n",
"        <td>NaN</td>\n",
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"      <tr>\n",
"        <th>1</th>\n",
"        <td>ham</td>\n",
"        <td>Ok lar... Joking wif u oni...</td>\n",
"        <td>NaN</td>\n",
"        <td>NaN</td>\n",
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"      </tr>\n",
"      <tr>\n",
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    "3   ham  U dun say so early hor... U c already then say...        NaN   \n",
    "4   ham  Nah I don't think he goes to usf, he lives aro...        NaN   \n",
    "\n",
    "  Unnamed: 3 Unnamed: 4  \n",
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```
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    "  </tr>\n",
    "  <tr>\n",
    "    <th>1994</th>\n",
    "    <td>ham</td>\n",
    "    <td>Have you been practising your curtsey?</td>\n",
    "  </tr>\n",
    "  <tr>\n",
    "    <th>1995</th>\n",
    "    <td>ham</td>\n",
    "    <td>Shall i come to get pickle</td>\n",
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    "    <td>Lol boo I was hoping for a laugh</td>\n",
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```

```
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      "1992  spam  Free tones Hope you enjoyed your new content. ...\n",
      "1993   ham            Eh den sat u book e kb liao huh...\n",
      "1994   ham          Have you been practising your curtsey?\n",
      "1995   ham                Shall i come to get pickle\n",
      "1996   ham             Lol boo I was hoping for a laugh\n",
      "1997   ham              \\YEH I AM DEF UP4 SOMETHING SAT\n",
      "1998   ham  Well, I have to leave for my class babe ... Yo...\n",
      "1999   ham     LMAO where's your fish memory when I need it?"
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    "    for words in tokens:\n",

    "        spam_words = spam_words + words + ' '\n",

    "        \n",

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    "    text = val.lower()\n",

    "    tokens = nltk.word_tokenize(text)\n",

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    "        ham_words = ham_words + words + ' '"

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      "plt.axis(\"off\")\n",
      "plt.tight_layout(pad=0)\n",
      "plt.show()"
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     "      &lt;th&gt;&lt;/th&gt;\n",
     "      &lt;th&gt;label&lt;/th&gt;\n",
     "      &lt;th&gt;text&lt;/th&gt;\n",
     "      &lt;th&gt;length&lt;/th&gt;\n",
     "    &lt;/tr&gt;\n",
     "  &lt;/thead&gt;\n",
     "  &lt;tbody&gt;\n",
     "    &lt;tr&gt;\n",
     "      &lt;th&gt;0&lt;/th&gt;\n",
     "      &lt;td&gt;0&lt;/td&gt;\n",
     "      &lt;td&gt;Go until jurong point, crazy.. Available only ...&lt;/td&gt;\n",
     "      &lt;td&gt;111&lt;/td&gt;\n",
     "    &lt;/tr&gt;\n",

```
"    <tr>\n",
"      <th>1</th>\n",
"      <td>0</td>\n",
"      <td>Ok lar... Joking wif u oni...</td>\n",
"      <td>29</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>2</th>\n",
"      <td>1</td>\n",
"      <td>Free entry in 2 a wkly comp to win FA Cup fina...</td>\n",
"      <td>155</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>3</th>\n",
"      <td>0</td>\n",
"      <td>U dun say so early hor... U c already then say...</td>\n",
"      <td>49</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>4</th>\n",
"      <td>0</td>\n",
"      <td>Nah I don't think he goes to usf, he lives aro...</td>\n",
"      <td>61</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>5</th>\n",
"      <td>1</td>\n",
"      <td>FreeMsg Hey there darling it's been 3 week's n...</td>\n",
"      <td>148</td>\n",
"    </tr>\n",
"    <tr>\n",
```

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"      &lt;td&gt;0&lt;/td&gt;\n",

"      &lt;td&gt;Even my brother is not like to speak with me. ...&lt;/td&gt;\n",

"      &lt;td&gt;77&lt;/td&gt;\n",

"    &lt;/tr&gt;\n",

"    &lt;tr&gt;\n",

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"      &lt;td&gt;0&lt;/td&gt;\n",

"      &lt;td&gt;As per your request 'Melle Melle (Oru Minnamin...&lt;/td&gt;\n",

"      &lt;td&gt;160&lt;/td&gt;\n",

"    &lt;/tr&gt;\n",

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"      &lt;td&gt;1&lt;/td&gt;\n",

"      &lt;td&gt;WINNER!! As a valued network customer you have...&lt;/td&gt;\n",

"      &lt;td&gt;158&lt;/td&gt;\n",

"    &lt;/tr&gt;\n",

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"      &lt;td&gt;1&lt;/td&gt;\n",

"      &lt;td&gt;Had your mobile 11 months or more? U R entitle...&lt;/td&gt;\n",

"      &lt;td&gt;154&lt;/td&gt;\n",

"    &lt;/tr&gt;\n",

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"1     0                      Ok lar... Joking wif u oni...      29\n",

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      "2    1  Free entry in 2 a wkly comp to win FA Cup fina...    155\n",

      "3    0  U dun say so early hor... U c already then say...     49\n",

      "4    0  Nah I don't think he goes to usf, he lives aro...     61\n",

      "5    1  FreeMsg Hey there darling it's been 3 week's n...    148\n",

      "6    0  Even my brother is not like to speak with me. ...     77\n",

      "7    0  As per your request 'Melle Melle (Oru Minnamin...    160\n",

      "8    1  WINNER!! As a valued network customer you have...    158\n",

      "9    1  Had your mobile 11 months or more? U R entitle...    154"

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  ]
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  "execution_count": 41,
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      "def text_process(text):\n",
      "    \n",
      "    text = text.translate(str.maketrans('', '', string.punctuation))\n",
      "    text = [word for word in text.split() if word.lower() not in stopwords.words('english')]\n",
      "    \n",
      "    return \" \".join(text)"
     ]
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     ]
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" &lt;th&gt;label&lt;/th&gt;\n",

" &lt;th&gt;text&lt;/th&gt;\n",

" &lt;th&gt;length&lt;/th&gt;\n",

" &lt;/tr&gt;\n",

" &lt;/thead&gt;\n",

" &lt;tbody&gt;\n",

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" &lt;td&gt;0&lt;/td&gt;\n",

" &lt;td&gt;Go jurong point crazy Available bugis n great ...&lt;/td&gt;\n",

" &lt;td&gt;111&lt;/td&gt;\n",

" &lt;/tr&gt;\n",

" &lt;tr&gt;\n",

" &lt;th&gt;1&lt;/th&gt;\n",

" &lt;td&gt;0&lt;/td&gt;\n",

" &lt;td&gt;Ok lar Joking wif u oni&lt;/td&gt;\n",

" &lt;td&gt;29&lt;/td&gt;\n",

" &lt;/tr&gt;\n",

" &lt;tr&gt;\n",

" &lt;th&gt;2&lt;/th&gt;\n",

" &lt;td&gt;1&lt;/td&gt;\n",

" &lt;td&gt;Free entry 2 wkly comp win FA Cup final tkts 2...&lt;/td&gt;\n",

" &lt;td&gt;155&lt;/td&gt;\n",

" &lt;/tr&gt;\n",

```
      "    <tr>\n",
      "      <th>3</th>\n",
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      "      <td>U dun say early hor U c already say</td>\n",
      "      <td>49</td>\n",
      "    </tr>\n",
      "    <tr>\n",
      "      <th>4</th>\n",
      "      <td>0</td>\n",
      "      <td>Nah dont think goes usf lives around though</td>\n",
      "      <td>61</td>\n",
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      "1      0                      Ok lar Joking wif u oni      29\n",
      "2      1  Free entry 2 wkly comp win FA Cup final tkts 2...     155\n",
      "3      0              U dun say early hor U c already say      49\n",
      "4      0      Nah dont think goes usf lives around though      61"
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```
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  "metadata": {},
  "source": [
   "## Converting words to vectors\n",
   "\n",
   "- First create a vocabulary of all words in the dataset (text messages)\n",
   "\n",
   "- #### Vector created as follows :\n",
   " - positions with respect to highest occuring word\n",
   " - Eg : 1 at first index means first word in vocab(most frequent occuring in vocab which is 'of')
occurs twice in this sentence"
  ]
 },
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```

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      "output_type": "stream",

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       "Total words in data set:  11305\n"

      ]

     }

    ],

    "source": [

     "## Counting how many times a word appears in the dataset\n",

     "\n",

     "from collections import Counter\n",

     "\n",

     "total_counts = Counter()\n",

     "for i in range(len(text)):\n",

     "    for word in text.values[i][0].split(\" \"):\n",

     "        total_counts[word] += 1\n",

     "\n",

     "print(\"Total words in data set: \", len(total_counts))"

    ]

   },

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     ]

    }

    ],

    "source": [

    "## Sorting in decreasing order (Word with highest frequency appears first)\n",

    "vocab = sorted(total_counts, key=total_counts.get, reverse=True)\n",

    "print(vocab[:60])"

    ]

   },

   {

    "cell_type": "code",

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    },

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    "source": [

    "# Mapping from words to index\n",

    "\n",

    "vocab_size = len(vocab)\n",

    "word2idx = {}\n",

    "#print vocab_size\n",

```
    "for i, word in enumerate(vocab):\n",
    "    word2idx[word] = i"
   ]
  },
  {
   "cell_type": "code",
   "execution_count": 115,
   "metadata": {
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   "source": [
    "### Text to Vector\n",
    "def text_to_vector(text):\n",
    "    word_vector = np.zeros(vocab_size)\n",
    "    for word in text.split(\" \"):\n",
    "        if word2idx.get(word) is None:\n",
    "            continue\n",
    "        else:\n",
    "            word_vector[word2idx.get(word)] += 1\n",
    "    return np.array(word_vector)"
   ]
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```

```
   "## Convert all titles to vectors\n",
   "word_vectors = np.zeros((len(text), len(vocab)), dtype=np.int_)\n",
   "for ii, (_, text_) in enumerate(text.iterrows()):\n",
   "    word_vectors[ii] = text_to_vector(text_[0])"
  ]
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   "word_vectors.shape"
  ]
 },
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```json
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    },
    "execution_count": 156,
    "metadata": {},
    "output_type": "execute_result"
   }
  ],
  "source": [
   "from sklearn.feature_extraction.text import TfidfVectorizer\n",
   "\n",
   "vectorizer = TfidfVectorizer()\n",
   "vectors = vectorizer.fit_transform(data['text'])\n",
   "vectors.shape"
  ]
 },
 {
```

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 ]

},

{

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  "#features = word_vectors\n",

  "features = vectors"

 ]

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{

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 "metadata": {},

 "source": [

  "### Splitting into training and test set"

 ]

},

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```
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random_state=111)"
   ]
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      "(836, 9376)\n",
      "(4736,)\n",
      "(836,)\n"
     ]
    }
   ],
   "source": [
    "print (X_train.shape)\n",
    "print (X_test.shape)\n",
    "print (y_train.shape)\n",
    "print (y_test.shape)"
   ]
  },
```

```json
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 ]
},
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 "metadata": {},
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  "### XGBoost using custom vocab"
 ]
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    "Will train until train-error hasn't improved in 50 rounds.\n",
    "[10]\ttrain-error:0.052998\n",
    "[20]\ttrain-error:0.048353\n",
    "[30]\ttrain-error:0.047086\n",
    "[40]\ttrain-error:0.048142\n",
```

"[50]\ttrain-error:0.047297\n",

"[60]\ttrain-error:0.04603\n",

"[70]\ttrain-error:0.04772\n",

"[80]\ttrain-error:0.044975\n",

"[90]\ttrain-error:0.043497\n",

"[100]\ttrain-error:0.040329\n",

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"[120]\ttrain-error:0.039485\n",

"[130]\ttrain-error:0.038851\n",

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"[150]\ttrain-error:0.037584\n",

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"[190]\ttrain-error:0.032728\n",

"[200]\ttrain-error:0.031461\n",

"[210]\ttrain-error:0.030828\n",

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 "import xgboost as xgb\n",

 "\n",

 "# Set our parameters for xgboost\n",

 "params = {}\n",

 "params['objective'] = 'binary:logistic'\n",

 "params['eval_metric'] = 'error'\n",

 "params['eta'] = 0.02\n",

 "params['max_depth'] = 10\n",

 "\n",

 "d_train = xgb.DMatrix(X_train, label=y_train)\n",

 "\n",

 "watchlist = [(d_train, 'train')]\n",

 "\n",

 "bst = xgb.train(params, d_train, 400, watchlist, early_stopping_rounds=50, verbose_eval=10)"

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  "### XGBoost using TFIDF"

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  "\n",
  "# Set our parameters for xgboost\n",
  "params = {}\n",

   "params['objective'] = 'binary:logistic'\n",

   "params['eval_metric'] = 'error'\n",

   "params['eta'] = 0.02\n",

   "params['max_depth'] = 10\n",

   "\n",

   "d_train = xgb.DMatrix(X_train, label=y_train)\n",

   "\n",

   "watchlist = [(d_train, 'train')]\n",

   "\n",

   "bst = xgb.train(params, d_train, 400, watchlist, early_stopping_rounds=400, verbose_eval=10)"

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   "from sklearn.metrics import accuracy_score\n",

   "\n",

   "# Predict values for test set\n",

```
   "d_test = xgb.DMatrix(X_test)\n",

   "p_test = bst.predict(d_test)\n",

   "\n",

   "# Apply function round() to each element in np array\n",

   "# so predictions are all either 0 or 1.\n",

   "npround = np.vectorize(round)\n",

   "p_test_ints = npround(p_test)\n",

   "\n",

   "# Error rate for test set\n",

   "accuracy = accuracy_score(y_test, p_test_ints)\n",

   "print(\"Test Accuracy: \", accuracy)"

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    "from sklearn.naive_bayes import MultinomialNB\n",
    "from sklearn.tree import DecisionTreeClassifier\n",
    "from sklearn.neighbors import KNeighborsClassifier\n",
    "from sklearn.ensemble import RandomForestClassifier"
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    "mnb = MultinomialNB(alpha=0.2)\n",
    "dtc = DecisionTreeClassifier(min_samples_split=7, random_state=111)\n",
    "lrc = LogisticRegression(solver='liblinear', penalty='l1')\n",
    "rfc = RandomForestClassifier(n_estimators=31, random_state=111)"
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    "\n",

    "def predict(clf, features):\n",

    "    return (clf.predict(features))"

   ]

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     "for k,v in clfs.items():\n",

     "    train(v, X_train, y_train)\n",

     "    pred = predict(v, X_test)\n",

     "    pred_scores_word_vectors.append((k, [accuracy_score(y_test , pred)]))"

    ]

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"    </tr>\n",
"  </thead>\n",
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```

```json
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    "    </tr>\n",

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