

## ASSIGNMENT – 4

Name	SURIYA.A.J
Register Number	210519205051
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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```

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" <td>Go until jurong point, crazy.. Available only ...</td>\n",  
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" <td>NaN</td>\n",  
" <td>NaN</td>\n",  
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" <td>NaN</td>\n",  
" <td>NaN</td>\n",  
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"1  ham                Ok lar... Joking wif u oni...    NaN  \n",
"2  spam  Free entry in 2 a wkly comp to win FA Cup fina...    NaN  \n",
"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",
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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",  
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" <td>ham</td>\n",  
" <td>Shall i come to get pickle</td>\n",  
" </tr>\n",  
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" <td>ham</td>\n",  
" <td>Lol boo I was hoping for a laugh</td>\n",  
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" <tr>\n",  
" <th>1997</th>\n",  
" <td>ham</td>\n",  
" <td>\\YEH I AM DEF UP4 SOMETHING SAT</td>\n",  
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" <tr>\n",  
" <th>1998</th>\n",  
" <td>ham</td>\n",  
" <td>Well, I have to leave for my class babe ... Yo...</td>\n",  
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" <tr>\n",  
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" <td>ham</td>\n",



```

"    <td>LMAO where's your fish memory when I need it?</td>\n",
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"1991  ham  No other Valentines huh? The proof is on your ...\n",
"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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AYDAaDwWAwHgFm\neDMYDAaDwWAwGMMAM7wZDAaDwWAwGlXhgBneDAaDwWAwGAzGMM  
AMbwaDwWAwGAwGYxhghjeDwWAw\nnGAwGgzEMMMObwWAwGAwGg8EYBpjhzWAwGAwGg8Fg  
DAPM8GYwGAwGg8FgMIYBZngzGAwGg8FgMBjD\nnADO8GQwGg8FgMBiMYAZ3gwGg8FgMBgMxjD  
ADG8Gg8FgMBgMBmMYIY3g8FgMBgMBoMxDDDDm8Fg\nnMBgMBoPBGAaY4c1gMBgMBoPBYAwD  
zPBmMBgMBoPBYDCGgf8HRyOP5Rr7FsoAAAAASUVORK5CYII=\n",

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"<matplotlib.figure.Figure at 0x10f69f278>"

]

},

"metadata": {},

"output\_type": "display\_data"

}

],

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"plt.figure( figsize=(10,8), facecolor='g')\n",

"plt.imshow(ham\_wordcloud)\n",

"plt.axis(\n\"off\")\n",

"plt.tight\_layout(pad=0)\n",

"plt.show()"

]

},

{

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},

"outputs": [],

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]
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  "metadata": {
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          "<table border='1' class='dataframe'>\n",
          " <thead>\n",
          " <tr style='text-align: right;'>\n",
          " <th></th>\n",
          " <th>label</th>\n",
          " <th>text</th>\n",
          " <th>length</th>\n",
          " </tr>\n",
          " </thead>\n",
          " <tbody>\n",
          " <tr>\n",
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          " <td>0</td>\n",
          " <td>Go until jurong point, crazy.. Available only ...</td>\n",
          " <td>111</td>\n",
          " </tr>\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",



```

"    <th>6</th>\n",
"    <td>0</td>\n",
"    <td>Even my brother is not like to speak with me. ...</td>\n",
"    <td>77</td>\n",
"  </tr>\n",
"  <tr>\n",
"    <th>7</th>\n",
"    <td>0</td>\n",
"    <td>As per your request 'Melle Melle (Oru Minnamin...</td>\n",
"    <td>160</td>\n",
"  </tr>\n",
"  <tr>\n",
"    <th>8</th>\n",
"    <td>1</td>\n",
"    <td>WINNER!! As a valued network customer you have...</td>\n",
"    <td>158</td>\n",
"  </tr>\n",
"  <tr>\n",
"    <th>9</th>\n",
"    <td>1</td>\n",
"    <td>Had your mobile 11 months or more? U R entitle...</td>\n",
"    <td>154</td>\n",
"  </tr>\n",
" </tbody>\n",
"</table>\n",
"</div>"

```

```

],

```

```

"text/plain": [

```

```

" label                      text length\n",

```

```

"0    0  Go until jurong point, crazy.. Available only ...   111\n",

```

```

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

```

```

"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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"metadata": {},
"output_type": "execute_result"
}
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"source": [
"data.head(10)"
]
},
{
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"metadata": {},
"source": [
"### Removing Stopwords from the messages"
]
},
{
"cell_type": "code",
"execution_count": 41,
"metadata": {
"collapsed": true

```

```

},
"outputs": [],
"source": [
    "import string\n",
    "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)"
]
},
{
    "cell_type": "code",
    "execution_count": 42,
    "metadata": {
        "collapsed": false
    },
    "outputs": [],
    "source": [
        "data['text'] = data['text'].apply(text_process)"
    ]
},
{
    "cell_type": "code",
    "execution_count": 44,
    "metadata": {
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    },
    "outputs": [
        {

```

```
"data": {
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    "<table border=\"1\" class=\"dataframe\">\n",
    "  <thead>\n",
    "    <tr style=\"text-align: right;\">\n",
    "      <th></th>\n",
    "      <th>label</th>\n",
    "      <th>text</th>\n",
    "      <th>length</th>\n",
    "    </tr>\n",
    "  </thead>\n",
    "  <tbody>\n",
    "    <tr>\n",
    "      <th>0</th>\n",
    "      <td>0</td>\n",
    "      <td>Go jurong point crazy Available bugis n great ...</td>\n",
    "      <td>111</td>\n",
    "    </tr>\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 2 wkly comp win FA Cup final tkts 2...</td>\n",
    "      <td>155</td>\n",
    "    </tr>\n",
  ]
}
```

```

" <tr>\n",
" <th>3</th>\n",
" <td>0</td>\n",
" <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",
" </tr>\n",
" </tbody>\n",
"</table>\n",
"</div>"
],
"text/plain": [
" label text length\n",
"0 0 Go jurong point crazy Available bugis n great ... 111\n",
"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"
]
},
"execution_count": 44,
"metadata": {},
"output_type": "execute_result"
}
],
"source": [

```

```

"data.head()"
]
},
{
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"metadata": {
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"text = pd.DataFrame(data['text'])\n",
"label = pd.DataFrame(data['label'])"
]
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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 occurring word\n",
"- Eg : 1 at first index means first word in vocab(most frequent occurring in vocab which is 'of') occurs twice in this sentence"
]
},
{
"cell_type": "code",

```

```
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"metadata": {
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},
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    "output_type": "stream",
    "text": [
      "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))"
  ],
  {
    "cell_type": "code",
    "execution_count": 113,
    "metadata": {
      "collapsed": false
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  }
]
```

```

},
"outputs": [
  {
    "name": "stdout",
    "output_type": "stream",
    "text": [
      "[ 'u', '2', 'call', 'U', 'get', 'Im', 'ur', '4', 'ltgt', 'know', 'go', 'like', 'dont', 'come', 'got', 'time', 'day',
      'want', 'Ill', 'lor', 'Call', 'home', 'send', 'going', 'one', 'need', 'Ok', 'good', 'love', 'back', 'n', 'still', 'text',
      'im', 'later', 'see', 'da', 'ok', 'think', '◆', 'free', 'FREE', 'r', 'today', 'Sorry', 'week', 'phone', 'mobile',
      'cant', 'tell', 'take', 'much', 'night', 'way', 'Hey', 'reply', 'work', 'make', 'give', 'new']\n"
    ]
  }
],
"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",
  "execution_count": 114,
  "metadata": {
    "collapsed": true
  },
  "outputs": [],
  "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",
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    "metadata": {
        "collapsed": true
    },
    "outputs": [],
    "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)"
    ]
},
{
    "cell_type": "code",
    "execution_count": 117,
    "metadata": {
        "collapsed": false
    },
    "outputs": [],
    "source": [

```

```

"## 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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"metadata": {
"collapsed": false
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"(5572, 11305)"
]
},
"execution_count": 118,
"metadata": {},
"output_type": "execute_result"
},
],
"source": [
"word_vectors.shape"
]
},
{
"cell_type": "markdown",
"metadata": {},

```

```

"source": [
    "## Converting words to vectors using TFIDF Vectorizer"
]
},
{
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    "metadata": {
        "collapsed": false
    },
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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"
    ]
},
{

```

```

"cell_type": "markdown",
"metadata": {},
"source": [
    "### Choosing which algorithm we want to use a features : TFIDF or using custom vocabulary ?"
]
},
{
    "cell_type": "code",
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    },
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    "source": [
        "#features = word_vectors\n",
        "features = vectors"
    ]
},
{
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "### Splitting into training and test set"
    ]
},
{
    "cell_type": "code",
    "execution_count": 158,
    "metadata": {
        "collapsed": false
    },

```

```
"outputs": [],
"source": [
    "X_train, X_test, y_train, y_test = train_test_split(features, data['label'], test_size=0.15,
random_state=111)"
],
{
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            "output_type": "stream",
            "text": [
                "(4736, 9376)\n",
                "(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)"
    ]
},
```

```
{
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  "metadata": {},
  "source": [
    "## Initial Classification using XGBoost"
  ]
},
{
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "### XGBoost using custom vocab"
  ]
},
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  "metadata": {
    "collapsed": false
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      "output_type": "stream",
      "text": [
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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",
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"[50]\ttrain-error:0.047297\n",  
"[60]\ttrain-error:0.04603\n",  
"[70]\ttrain-error:0.04772\n",  
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"[90]\ttrain-error:0.043497\n",  
"[100]\ttrain-error:0.040329\n",  
"[110]\ttrain-error:0.039907\n",  
"[120]\ttrain-error:0.039485\n",  
"[130]\ttrain-error:0.038851\n",  
"[140]\ttrain-error:0.03864\n",  
"[150]\ttrain-error:0.037584\n",  
"[160]\ttrain-error:0.036951\n",  
"[170]\ttrain-error:0.035473\n",  
"[180]\ttrain-error:0.033361\n",  
"[190]\ttrain-error:0.032728\n",  
"[200]\ttrain-error:0.031461\n",  
"[210]\ttrain-error:0.030828\n",  
"[220]\ttrain-error:0.030405\n",  
"[230]\ttrain-error:0.029772\n",  
"[240]\ttrain-error:0.029139\n",  
"[250]\ttrain-error:0.028716\n",  
"[260]\ttrain-error:0.027872\n",  
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"[280]\ttrain-error:0.026182\n",  
"[290]\ttrain-error:0.025971\n",  
"[300]\ttrain-error:0.025549\n",  
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"[320]\ttrain-error:0.024282\n",  
"[330]\ttrain-error:0.024282\n",  
"[340]\ttrain-error:0.024282\n",  
"[350]\ttrain-error:0.02386\n",

```

"[360]\\ttrain-error:0.023226\\n",
"[370]\\ttrain-error:0.023015\\n",
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"[390]\\ttrain-error:0.021748\\n",
"[399]\\ttrain-error:0.021748\\n"
]
}
],
"source": [
"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)"
]
},
{
"cell_type": "markdown",
"metadata": {},
"source": [
"### XGBoost using TFIDF"
]

```



```
},
{
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        "Will train until train-error hasn't improved in 400 rounds.\n",
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        "[20]\ttrain-error:0.034206\n",
        "[30]\ttrain-error:0.03125\n",
        "[40]\ttrain-error:0.029561\n",
        "[50]\ttrain-error:0.026182\n",
        "[60]\ttrain-error:0.02576\n",
        "[70]\ttrain-error:0.024704\n",
        "[80]\ttrain-error:0.024493\n",
        "[90]\ttrain-error:0.02386\n",
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        "[110]\ttrain-error:0.021748\n",
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        "[150]\ttrain-error:0.021748\n",
        "[160]\ttrain-error:0.021537\n",
        "[170]\ttrain-error:0.020481\n",
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"[250]\\ttrain-error:0.017736\\n",
"[260]\\ttrain-error:0.017525\\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=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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"## Classifying using sklearn pre built classifiers"
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  "from sklearn.svm import SVC\n",
  "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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    "knc = KNeighborsClassifier(n_neighbors=49)\n",
    "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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```

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    "def predict(clf, features):\n",
    "    return (clf.predict(features))"
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```

```

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    "    pred = predict(v, X_test)\n",
    "    pred_scores_word_vectors.append((k, [accuracy_score(y_test , pred)]))"
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```

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