

## ASSIGNMENT-4

Name	RAGUL.UM
Register Number	210519205039
Team Size	4
Team ID	PNT2022TMID25119

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"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>ham</td>\n",  
" <td>Go until jurong point, crazy.. Available only ...</td>\n",  
" <td>NaN</td>\n",  
" <td>NaN</td>\n",  
" <td>NaN</td>\n",  
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" <td>Ok lar... Joking wif u oni...</td>\n",  
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" <td>NaN</td>\n",  
" <td>NaN</td>\n",  
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" <tr>\n",  
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" <td>Free entry in 2 a wkly comp to win FA Cup fina...</td>\n",  
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" <td>NaN</td>\n",  
" <td>NaN</td>\n",  
" </tr>\n",  
" <tr>\n",  
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" <td>ham</td>\n",  
" <td>U dun say so early hor... U c already then say...</td>\n",  
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" <td>NaN</td>\n",  
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" <tr>\n",

```

"    <th>4</th>\n",
"    <td>ham</td>\n",
"    <td>Nah I don't think he goes to usf, he lives aro...</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",
"  Unnamed: 3 Unnamed: 4 \n",
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    "data = data.rename(columns={\"v2\" : \"text\", \"v1\": \"label\"})"
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      "      <td>No other Valentines huh? The proof is on your ...</td>\n",
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      "      <td>spam</td>\n",
      "      <td>Free tones Hope you enjoyed your new content. ...</td>\n",
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" <td>ham</td>\n",  
" <td>Eh den sat u book e kb liao huh...</td>\n",  
" </tr>\n",  
" <tr>\n",  
" <th>1994</th>\n",  
" <td>ham</td>\n",  
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" <tr>\n",  
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" <td>ham</td>\n",  
" <td>Shall i come to get pickle</td>\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",  
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" <td>\\YEH I AM DEF UP4 SOMETHING SAT</td>\n",  
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" <tr>\n",  
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" <td>ham</td>\n",  
" <td>Well, I have to leave for my class babe ... Yo...</td>\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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  "1990 ham  HI DARLIN IVE JUST GOT BACK AND I HAD A REALLY...\n",
  "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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    "      <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"
]
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"metadata": {},
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```

```

"data.head()"
]
},
{
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"collapsed": true
},
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"text = pd.DataFrame(data['text'])\n",
"label = pd.DataFrame(data['label'])"
]
},
{
"cell_type": "markdown",
"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"
]
},
{
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```

```
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"collapsed": false
},
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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
```

```

},
"outputs": [
  {
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    "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"
]
},
{
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"execution_count": 115,
"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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},
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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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    "execution_count": 156,  
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        "collapsed": false  
    },  
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            "data": {  
                "text/plain": [  
                    "(5572, 9376)"  
                ]  
            },  
            "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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"metadata": {},
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    "## Choosing which algorithm we want to use a features : TFIDF or using custom vocabulary ?"
]
},
{
    "cell_type": "code",
    "execution_count": 157,
    "metadata": {
        "collapsed": true
    },
    "outputs": [],
    "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": []
}
```

```
"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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    "execution_count": 159,
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        "collapsed": false
    },
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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)"
    ]
},
```

```
{
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "## Initial Classification using XGBoost"
  ]
},
{
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "### XGBoost using custom vocab"
  ]
},
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  "execution_count": 125,
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    "collapsed": false
  },
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    {
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      "output_type": "stream",
      "text": [
        "[0]\ttrain-error:0.052998\n",
        "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",  
"[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",  
"[270]\ttrain-error:0.027872\n",  
"[280]\ttrain-error:0.026182\n",  
"[290]\ttrain-error:0.025971\n",  
"[300]\ttrain-error:0.025549\n",  
"[310]\ttrain-error:0.024916\n",  
"[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",
"[380]\\ttrain-error:0.022593\\n",
"[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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      "name": "stdout",
      "output_type": "stream",
      "text": [
        "[0]\ttrain-error:0.035262\n",
        "Will train until train-error hasn't improved in 400 rounds.\n",
        "[10]\ttrain-error:0.035895\n",
        "[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",
        "[100]\ttrain-error:0.023438\n",
        "[110]\ttrain-error:0.021748\n",
        "[120]\ttrain-error:0.021326\n",
        "[130]\ttrain-error:0.021748\n",
        "[140]\ttrain-error:0.021959\n",
        "[150]\ttrain-error:0.021748\n",
        "[160]\ttrain-error:0.021537\n",
        "[170]\ttrain-error:0.020481\n",
```

```

"[180]\\ttrain-error:0.020059\\n",
"[190]\\ttrain-error:0.019426\\n",
"[200]\\ttrain-error:0.019426\\n",
"[210]\\ttrain-error:0.019003\\n",
"[220]\\ttrain-error:0.018792\\n",
"[230]\\ttrain-error:0.018581\\n",
"[240]\\ttrain-error:0.01837\\n",
"[250]\\ttrain-error:0.017736\\n",
"[260]\\ttrain-error:0.017525\\n",
"[270]\\ttrain-error:0.017314\\n",
"[280]\\ttrain-error:0.017103\\n",
"[290]\\ttrain-error:0.01647\\n",
"[300]\\ttrain-error:0.016047\\n",
"[310]\\ttrain-error:0.015836\\n",
"[320]\\ttrain-error:0.015625\\n",
"[330]\\ttrain-error:0.014992\\n",
"[340]\\ttrain-error:0.014992\\n",
"[350]\\ttrain-error:0.01478\\n",
"[360]\\ttrain-error:0.014569\\n",
"[370]\\ttrain-error:0.014147\\n",
"[380]\\ttrain-error:0.014147\\n",
"[390]\\ttrain-error:0.013936\\n",
"[399]\\ttrain-error:0.013936\\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=400, verbose_eval=10)"
]
},
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"execution_count": 162,
"metadata": {
"collapsed": false
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"outputs": [
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"output_type": "stream",
"text": [
"Test Accuracy: 0.971291866029\n"
]
}
],
"source": [
"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)"
]
},
{
"cell_type": "markdown",
"metadata": {},
"source": [
"Test Accuracy using TFIDF Algorithm: 0.971291866029\n",
"\n",
"Test Accuracy using custom vocab: 0.972488038278"
]
},
{
"cell_type": "markdown",
"metadata": {},
"source": [
"## Classifying using sklearn pre built classifiers"
]
},
{
"cell_type": "code",

```

```

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"metadata": {
"collapsed": false
},
"outputs": [],
"source": [
"from sklearn.linear_model import LogisticRegression\n",
"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"
]
},
{
"cell_type": "code",
"execution_count": 164,
"metadata": {
"collapsed": true
},
"outputs": [],
"source": [
"svc = SVC(kernel='sigmoid', gamma=1.0)\n",
"knc = KNeighborsClassifier(n_neighbors=49)\n",
"mnbn = MultinomialNB(alpha=0.2)\n",
"dtn = DecisionTreeClassifier(min_samples_split=7, random_state=111)\n",
"lrc = LogisticRegression(solver='liblinear', penalty='l1')\n",
"rfc = RandomForestClassifier(n_estimators=31, random_state=111)"
]
},
{

```

```

"cell_type": "code",
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"metadata": {
"collapsed": true
},
"outputs": [],
"source": [
"clfs = {'SVC' : svc, 'KN' : knc, 'NB': mnb, 'DT': dtc, 'LR': lrc, 'RF': rfc}"
]
},
{
"cell_type": "code",
"execution_count": 166,
"metadata": {
"collapsed": true
},
"outputs": [],
"source": [
"def train(clf, features, targets): \n",
"  clf.fit(features, targets)\n",
"\n",
"def predict(clf, features):\n",
"  return (clf.predict(features))"
]
},
{
"cell_type": "code",
"execution_count": 167,
"metadata": {
"collapsed": false
},

```

```

"outputs": [],
"source": [
    "pred_scores_word_vectors = []\n",
    "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)]))"
]
},
{
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "## Predictions using TFIDF Vectorizer algorithm"
    ]
},
{
    "cell_type": "code",
    "execution_count": 168,
    "metadata": {
        "collapsed": false
    },
    "outputs": [
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            "data": {
                "text/html": [
                    "<div>\n",
                    "<table border='1' class='dataframe'>\n",
                    " <thead>\n",
                    " <tr style='text-align: right;'>\n",
                    "     <th></th>\n",

```

```
"    <th>Score</th>\n",
"  </tr>\n",
" </thead>\n",
" <tbody>\n",
"   <tr>\n",
"     <th>SVC</th>\n",
"     <td>0.978469</td>\n",
"   </tr>\n",
"   <tr>\n",
"     <th>KN</th>\n",
"     <td>0.933014</td>\n",
"   </tr>\n",
"   <tr>\n",
"     <th>NB</th>\n",
"     <td>0.988038</td>\n",
"   </tr>\n",
"   <tr>\n",
"     <th>DT</th>\n",
"     <td>0.960526</td>\n",
"   </tr>\n",
"   <tr>\n",
"     <th>LR</th>\n",
"     <td>0.953349</td>\n",
"   </tr>\n",
"   <tr>\n",
"     <th>RF</th>\n",
"     <td>0.979665</td>\n",
"   </tr>\n",
" </tbody>\n",
"</table>\n",
"</div>"
```



```

    ],
    "text/plain": [
        "    Score\n",
        "SVC 0.978469\n",
        "KN 0.933014\n",
        "NB 0.988038\n",
        "DT 0.960526\n",
        "LR 0.953349\n",
        "RF 0.979665"
    ]
},
"execution_count": 168,
"metadata": {},
"output_type": "execute_result"
}
],
"source": [
    "predictions = pd.DataFrame.from_items(pred_scores,orient='index', columns=['Score'])\n",
    "predictions"
]
},
{
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "## Predictions using custom vocabulary"
    ]
},
{
    "cell_type": "code",
    "execution_count": 132,

```

```
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"outputs": [
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        "<table border=\"1\" class=\"dataframe\">\n",
        "  <thead>\n",
        "    <tr style=\"text-align: right;\">\n",
        "      <th></th>\n",
        "      <th>Score_</th>\n",
        "    </tr>\n",
        "  </thead>\n",
        "  <tbody>\n",
        "    <tr>\n",
        "      <th>SVC</th>\n",
        "      <td>0.922249</td>\n",
        "    </tr>\n",
        "    <tr>\n",
        "      <th>KN</th>\n",
        "      <td>0.867225</td>\n",
        "    </tr>\n",
        "    <tr>\n",
        "      <th>NB</th>\n",
        "      <td>0.977273</td>\n",
        "    </tr>\n",
        "    <tr>\n",
        "      <th>DT</th>\n",
        "      <td>0.971292</td>\n",

```

```

" </tr>\n",
" <tr>\n",
"   <th>LR</th>\n",
"   <td>0.983254</td>\n",
" </tr>\n",
" <tr>\n",
"   <th>RF</th>\n",
"   <td>0.973684</td>\n",
" </tr>\n",
" </tbody>\n",
"</table>\n",
"</div>"
],
"text/plain": [
"   Score_\n",
"SVC 0.922249\n",
"KN 0.867225\n",
"NB 0.977273\n",
"DT 0.971292\n",
"LR 0.983254\n",
"RF 0.973684"
]
},
"execution_count": 132,
"metadata": {},
"output_type": "execute_result"
}
],
"source": [
"predictions_word_vectors =\n",
"pd.DataFrame.from_items(pred_scores_word_vectors,orient='index', columns=['Score_'])\n",

```

```
"predictions_word_vectors"
]
},
{
  "cell_type": "markdown",
  "metadata": {},
  "source": [
    "### Plot of scores TFIDF Vectorizer algorithm"
  ]
},
{
  "cell_type": "code",
  "execution_count": 169,
  "metadata": {
    "collapsed": false
  },
  "outputs": [
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      "data": {
        "text/plain": [
          "<matplotlib.legend.Legend at 0x110a13940>"
        ]
      },
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    }
  ],
  "source": [
    "p = mnbpredict(integers)[0]\n",
    "find(p)    "
  ]
}

```

```
]
},
{
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  "metadata": {},
  "source": [
    "## Saving the Best Model"
  ]
},
{
  "cell_type": "code",
  "execution_count": 170,
  "metadata": {
    "collapsed": false
  },
  "outputs": [
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      "output_type": "stream",
      "text": [
        "Best Model (Naive Bayes) Saved\n"
      ]
    }
  ],
  "source": [
    "from sklearn.externals import joblib\n",
    "joblib.dump(mnb, 'best.pkl')\n",
    "print (\"Best Model (Naive Bayes) Saved\")"
  ]
},
{
```



```

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},
"outputs": [],
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    "best = joblib.load('best.pkl')"
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},
{
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},
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{
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    "MultinomialNB(alpha=0.2, class_prior=None, fit_prior=True)"
]
},
"execution_count": 183,
"metadata": {},
"output_type": "execute_result"
}
],
"source": [
    "best"
]

```

```
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  "source": [
    "## Testing our classifiers"
  ]
},
{
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  "metadata": {
    "collapsed": true
  },
  "outputs": [],
  "source": [
    "text1 = [\"Free tones Hope you enjoyed your new content\"]\n",
    "text2 = [\"No. I meant the calculation is the same. That I'll call later\"]\n",
    "text3 = [\"Had your contract mobile 11 Mnths? Latest Motorola Now\"]\n",
    "text4 = [\"WINNER!! You just won a free ticket to Bahamas. Send your Details\"]\n",
    "\n",
    "integers1 = vectorizer.transform(text1)\n",
    "integers2 = vectorizer.transform(text2)\n",
    "integers3 = vectorizer.transform(text3)\n",
    "integers4 = vectorizer.transform(text4)"
  ]
},
{
  "cell_type": "code",
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  "metadata": {
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```
"collapsed": false
},
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  "output_type": "stream",
  "text": [
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    "Message is SPAM\n",
    "Message is SPAM\n",
    "Message is SPAM\n"
  ]
}
],
"source": [
  "p1 = best.predict(integers)[0]\n",
  "p2 = best.predict(integers)[0]\n",
  "p3 = best.predict(integers)[0]\n",
  "p4 = best.predict(integers)[0]\n",
  "\n",
  "find(p1)\n",
  "find(p2)\n",
  "find(p3)\n",
  "find(p4)"
]
},
{
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  "execution_count": null,
  "metadata": {
    "collapsed": true
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"source": []
}
],
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    "language": "python",
    "name": "python3"
  },
  "language_info": {
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      "name": "ipython",
      "version": 3
    },
    "file_extension": ".py",
    "mimetype": "text/x-python",
    "name": "python",
    "nbconvert_exporter": "python",
    "pygments_lexer": "ipython3",
    "version": "3.6.0"
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