

ASSIGNMENT – 4

Name	VISHWA.R
Register Number	210519205059
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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```

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" <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>ham</td>\n",
" <td>Ok lar... Joking wif u oni...</td>\n",
" <td>NaN</td>\n",
" <td>NaN</td>\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",
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" <td>U dun say so early hor... U c already then say...</td>\n",
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" <td>NaN</td>\n",
" <td>NaN</td>\n",
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"    <th>4</th>\n",
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"    <td>Nah I don't think he goes to usf, he lives aro...</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
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"0  ham  Go until jurong point, crazy.. Available only ...    NaN  \n",
"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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      "      <td>ham</td>\n",
      "      <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",
      "    </tr>\n",
      "    <tr>\n",
      "      <th>1993</th>
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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",
" <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",
" </tr>\n",
" <tr>\n",
" <th>1996</th>\n",
" <td>ham</td>\n",
" <td>Lol boo I was hoping for a laugh</td>\n",
" </tr>\n",
" <tr>\n",
" <th>1997</th>\n",
" <td>ham</td>\n",
" <td>\\YEH I AM DEF UP4 SOMETHING SAT</td>\n",
" </tr>\n",
" <tr>\n",
" <th>1998</th>\n",
" <td>ham</td>\n",
" <td>Well, I have to leave for my class babe ... Yo...</td>\n",
" </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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" </tbody>\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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" <td>148</td>\n",
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"    <td>77</td>\n",
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"    <td>As per your request 'Melle Melle (Oru Minnamin...</td>\n",
"    <td>160</td>\n",
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"    <th>8</th>\n",
"    <td>1</td>\n",
"    <td>WINNER!! As a valued network customer you have...</td>\n",
"    <td>158</td>\n",
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" label                      text length\n",

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"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",
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"9    1  Had your mobile 11 months or more? U R entitle...    154"
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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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    "      <td>Go jurong point crazy Available bugis n great ...</td>\n",
    "      <td>111</td>\n",
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    "      <td>Ok lar Joking wif u oni</td>\n",
    "      <td>29</td>\n",
    "    </tr>\n",
    "    <tr>\n",
    "      <th>2</th>\n",
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    "      <td>Free entry 2 wkly comp win FA Cup final tkts 2...</td>\n",
    "      <td>155</td>\n",
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}
```

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" <tr>\n",
" <th>3</th>\n",
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" <td>U dun say early hor U c already say</td>\n",
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" <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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"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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"\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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  "\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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      "[ '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])"
],
},
{
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  "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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    "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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    },
    "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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},
"outputs": [
{
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"(5572, 11305)"
]
},
"execution_count": 118,
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},
],
"source": [
"word_vectors.shape"
]
},
{
"cell_type": "markdown",
"metadata": {},

```

```

"source": [
    "## Converting words to vectors using TFIDF Vectorizer"
]
},
{
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                    "(5572, 9376)"
                ]
            },
            "execution_count": 156,
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            "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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    "### Choosing which algorithm we want to use a features : TFIDF or using custom vocabulary ?"
]
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{
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    "outputs": [],
    "source": [
        "#features = word_vectors\n",
        "features = vectors"
    ]
},
{
    "cell_type": "markdown",
    "metadata": {},
    "source": [
        "### Splitting into training and test set"
    ]
},
{
    "cell_type": "code",
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```

```
"outputs": [],
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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)"
    ]
},
```

```
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  "source": [
    "## Initial Classification using XGBoost"
  ]
},
{
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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",
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"[230]\ttrain-error:0.029772\n",
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"[290]\ttrain-error:0.025971\n",
"[300]\ttrain-error:0.025549\n",
"[310]\ttrain-error:0.024916\n",
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"[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)"
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{
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"### XGBoost using TFIDF"
]

```



```
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        "[20]\ttrain-error:0.034206\n",
        "[30]\ttrain-error:0.03125\n",
        "[40]\ttrain-error:0.029561\n",
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        "[150]\ttrain-error:0.021748\n",
        "[160]\ttrain-error:0.021537\n",
        "[170]\ttrain-error:0.020481\n",
```

```

"[180]\ttrain-error:0.020059\n",
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"[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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"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)"
]
},
{
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"Test Accuracy using TFIDF Algorithm: 0.971291866029\n",
"\n",
"Test Accuracy using custom vocab: 0.972488038278"
]
},
{
"cell_type": "markdown",
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"## Classifying using sklearn pre built classifiers"
]
},
{
"cell_type": "code",

```

```

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"metadata": {
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},
"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"
]
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  "source": [
    "svc = SVC(kernel='sigmoid', gamma=1.0)\n",
    "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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  "clfs = {'SVC' : svc, 'KN' : knn, 'NB': mnb, 'DT': dtc, 'LR': lrc, 'RF': rfc}"
]
},
{
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  "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)]))"
]
},
{
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    "source": [
        "## Predictions using TFIDF Vectorizer algorithm"
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},
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```

```
"    <th>Score</th>\n",
"  </tr>\n",
" </thead>\n",
" <tbody>\n",
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"     <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>"
```



```

],
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    "DT 0.960526\n",
    "LR 0.953349\n",
    "RF 0.979665"
]
},
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],
"source": [
    "predictions = pd.DataFrame.from_items(pred_scores,orient='index', columns=['Score'])\n",
    "predictions"
]
},
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        "## Predictions using custom vocabulary"
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{
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```

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        "      <th>Score_</th>\n",
        "    </tr>\n",
        "  </thead>\n",
        "  <tbody>\n",
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        "    </tr>\n",
        "    <tr>\n",
        "      <th>KN</th>\n",
        "      <td>0.867225</td>\n",
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        "    <tr>\n",
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        "    </tr>\n",
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```

```

" </tr>\n",
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" <td>0.983254</td>\n",
" </tr>\n",
" <tr>\n",
" <th>RF</th>\n",
" <td>0.973684</td>\n",
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" </tbody>\n",
"</table>\n",
"</div>"
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"KN 0.867225\n",
"NB 0.977273\n",
"DT 0.971292\n",
"LR 0.983254\n",
"RF 0.973684"
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```


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