Patient's Condition Classification Using Drug Reviews

Faysal Miah   ID: 1721758042

Miraz Ibn Azad   ID: 1721910042

Problem Statement and Workflow

Doctors and Specialists using the results of tests labs of patients to classify their needed care, which is time-consuming. The purpose of this project is to utilize Natural Language Processing(NLP) and Machine Learning in classifying patient to reduce the efforts and time expanded by the doctors and evaluate the type of patient at an early stage.
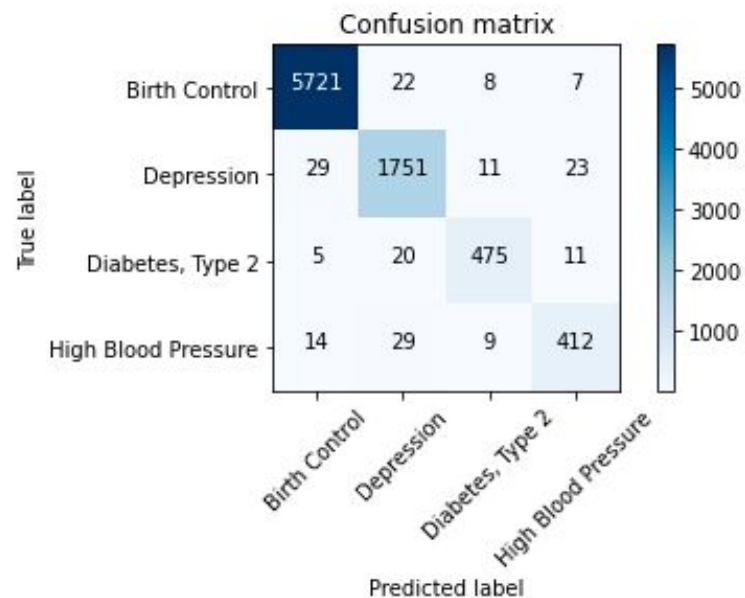

❏ Dataset - https://archive.ics.uci.edu/ml/datasets/Drug+Review+Dataset+%28Drugs.com%29
❏ Lemmatization
❏ Model Building
❏ Evaluation

Result

Bag of Word
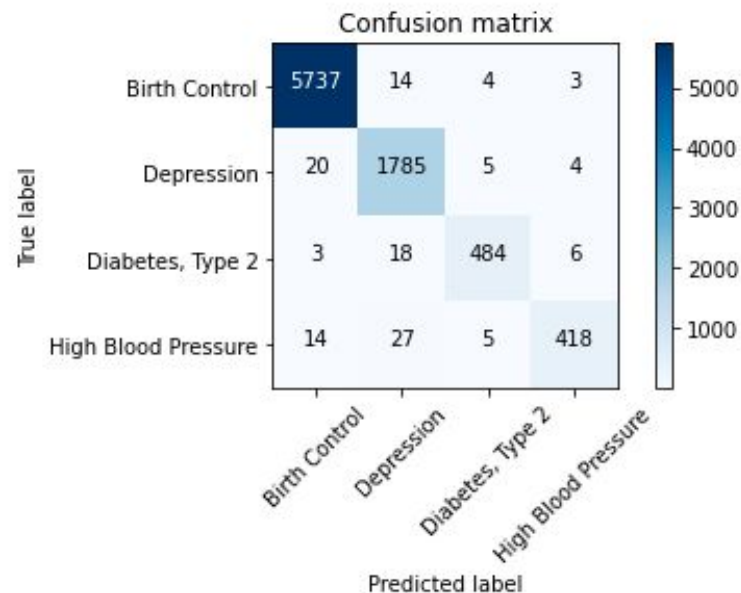
accuracy: 0.978

Confusion matrix, without normalization

TFIDF : Trigrams

accuracy: 0.986

Confusion matrix, without normalization

```python
text =["This is the third med I&#039;ve tried for anxiety and mild depre
ssion. Been on it for a week and I hate it so much. I am so dizzy, I hav
e major diarrhea and feel worse than I started. Contacting my doc in the
am and changing asap."]
test = tfidf_vectorizer3.transform(text)
pred1=pass_tf.predict(test)[0]
pred1
```

In [49]:

Out[49]:

'Depression'