Progress as of 9/28

* Neural Networks > Recurrent Neural Networks > Encoder-Decoder > Attention > Transformer > BERT
* Looked into how BERT works at a high level
* Gathered a few multiclass dataset
* Found a few reference notebooks where transformer models are used for sentiment classification

Progress as of 10/5

* Looked at simple transformer and tried to implement it with multiclass dataset

Progress as of 10/12

* Implemented pre-trained BERT and RoBERTa with three multiclass datasets
* Looked at LIME

To-do List

* Deeper understanding of BERT and the Maths
* ALBERT, ROBERTA
* How Lime and Captum works

End goal

* Create a pipeline
* See if Lime and Captum are outputting the same interpretability for each model

**Week 1**

* Introductory class and choosing a topic in the field of NLP

**Week 2**

* Fixed on ‘interpretability of transformer models’ as the capstone project and worked on the proposal report

**Week 3**

* Gathered dataset and submitted the proposal report

**Week 4**

* Worked on the Neural Networks > Recurrent Neural Networks > Encoder-Decoder > Attention > Transformer > BERT
* Looked into how BERT works at a high level
* Found a few reference notebooks where transformer models are used for sentiment classification

**Week 5**

* Looked at the hugging face repository and tried to implement it with multiclass dataset

**Week 6**

See if Lime and Captum are outputting the same interpretability for each model

**Week 7**

See if Lime and Captum are outputting the same interpretability for each model

**Week 8**

See if Lime and Captum are outputting the same interpretability for each model

**Week 9**

See if Lime and Captum are outputting the same interpretability for each model

**Week 10**

See if Lime and Captum are outputting the same interpretability for each model

**Week 11**

See if Lime and Captum are outputting the same interpretability for each model

**Week 12**

See if Lime and Captum are outputting the same interpretability for each model

**Week 13**

See if Lime and Captum are outputting the same interpretability for each model

**Week 14**

See if Lime and Captum are outputting the same interpretability for each model