NOTES:

1. Manually Unzip Yelp dataset (https://www.yelp.com/dataset/documentation/main) under /Dataset/yelp/ using command !tar xvzf '/path to/yelp\_dataset.tar'
2. Please provide correct file paths when running notebooks

Code structure

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/Supervised\_Notebooks/Sentiment\_Classifier --> sentiment classifier

/Supervised\_Notebooks/NER/synthetic\_annotation\_LLM\_MSFT\_Phi2.ipynb --> LLM based synthetic annotation

/Supervised\_Notebooks/NER/NER\_CRF.ipynb --> CRF Model

/Supervised\_Notebooks/NER/NER\_RNN.ipynb --> LSTM Model

/Supervised\_Notebooks/NER/NER\_RNN\_HyperTune.ipynb --> LSTM Model Finetuning

/Supervised\_Notebooks/NER/NER\_Inference.ipynb --> run inference

/Unsupervised\_Notebooks/Topic\_Model.ipynb --> topic modeling

/Dataset/NER/Yelp --> used by NER model (train, test set)

/Dataset/NER/Kaggle --> used by NER model (validation set)

/Dataset/NER/Model --> intermediate models created by NER model training and used for inference