Lab 5, CS6379, NLP Lab

- 1. Build a sentiment analysis using a pre-trained BERT model. The dataset should be from Kaggle, Hugging Face Datasets, or any public dataset repository.
- 2. Summarize a long paragraph using the t5 (small or base) model with an article or news dataset from Kaggle, Hugging Face, or any public dataset repository.
- 3. Generate text continuation using the GPT-2 model on a custom prompt.
- 4. Translate English sentences to French with sample sentences from translation datasets.
- 5. Explain the architecture of a Transformer model. Clearly describe the concepts of self-attention and positional encoding and why they are important. (*should be handwritten and a neat hand-drawn diagram*)