CS 505 – Spring 2021 – Assignment 5 (100 pts) – Transformers for Language Modeling and Classification
Problems due 11:59PM EST, April 11.

In this assignment, you will learn all about implementing **Transformers** using **HuggingFace library** for **text classification** and **language modeling**, and use python framework for deep learning such as **Pytorch**. The assignment will ask you to follow tutorials written in Google Colab while answering some questions and modifying the tutorials.

Submit in Blackboard by 11:59PM EST, April **11.**
  –Please indicate names of those you collaborate with.
  –Every late day will reduce your score by 20
  –After 2 days (i.e., if you submit on the 3rd day after due date), it will be marked 0.

Submit your codes and answers in notebook form

Problem 1. *Transformers for Text Generation (60 pts)*

1. *(60 pts)* **Generate text from pretrained models and fine-tune models using Datasets library**. *Make a copy of this tutorial in Google Colab in your own Drive: click File → Save a copy in Drive and answer questions and write code as directed in the tutorial*

2. *(10 pts)* **Fine-tune models for text generation using raw text**. *Make a copy of this tutorial in Google Colab in your own Drive and answer questions and write code as directed in the tutorial*

Problem 2. *Transformers for Text Classification (30 pts)*

1. *(30 pts)* **Fine-tune models for text classification**. *Make a copy of this tutorial in Google Colab in your own Drive and answer questions and write code as directed in the tutorial*