NLP

- ## Project -1 :
  Sentiment Analysis

Outline: Please implement an application which can predict a sentiment of the message about the entity, and briefly comment on each of the steps during the implementation. There are three classes in this dataset: Positive, Negative and Neutral. Messages that are not relevant to the entity (i.e. Irrelevant) are regarded as Neutral.

Dataset: Twitter

1. Twitter_training
2. Twitter_validation

Tools:
- Anaconda Navigator (Creating Virtual Environment)
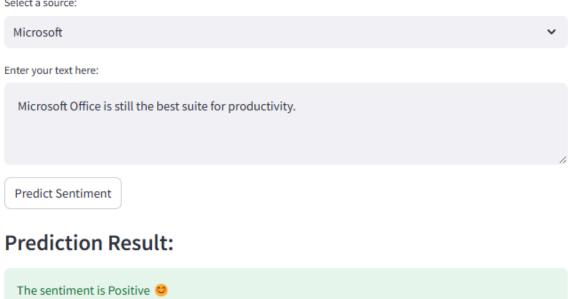- VS Code (IDE)
- Git

Sentiment Analysis Project

This project implements a sentiment analysis application using machine learning & NLP and provides a user interface with Streamlit.

Sentiment Analysis App

This app predicts the sentiment of text based on different sources.

Select a source:

Microsoft ⌄

Enter your text here:

Microsoft Office is still the best suite for productivity.

Predict Sentiment

Prediction Result:

The sentiment is Positive 😊

Sample Texts:

	Source	Sentiment	Text
757	HomeDepot	Neutral	@dbongino And real quickly as I have to run to Home Depot and touch
797	LeagueOfLegends	Neutral	Check out my video! #LeagueofLegends | Captured by #Outplayed #20
269	Facebook	Neutral	woops made a bunch of boomer men mad on facebook lmfaoooo pic.t
926	FIFA	Negative	Why does nobody want to sign for my @FGRFC_Official fifa 20 side I'm
583	TomClancysGhostRecon	Neutral	@GhostRecon Glad you're changing up the game to make it how it sho

How to create a Virtual env in Python using Anaconda Prompt:

- conda create -n venv python=3.12
- after creating virtual env we need to activate that env
- Conda activate venv

Note: Where venv is your virtual env name , you can give any name.