**Skynet**

This is our group project to do a NLP Sentiment Analysis on tweets about the latest version of ChatGPT

**Installation**

Pip install torch, emoji, WordCloud, simpletransformers, sklearn

**Data**

Download ChatgptData.csv from S3 or from [Kaggle](https://www.kaggle.com/datasets/charunisa/chatgpt-sentiment-analysis)

**Imports**

python

from numpy import loadtxt

import torch

import torch.nn as nn

import torch.optim as optim

import pandas as pd

import emoji

import re

import matplotlib.pyplot as plt

from wordcloud import WordCloud, stopwords

from simpletransformers.classification import ClassificationModel

import sklearn

import numpy as np

import seaborn as sns

from sklearn.metrics import confusion\_matrix

**Recommendations**

Run this on AWS SageMaker or other cloud services, local machines will not be able to handle the computation of the model

Keneral type

conda\_python3

**Accuracy**

\*\*92%\*\* For an NLP Model

**Architecture**

We chose to host the architecture on AWS to use AutoML capabilities, integrate with other AWS services, reduce training time, and improve computational power due to the size of the dataset and model.



