# Cyberbullying Detection on Social Media

Anurag Rajendra Watane (11013614)

## Web App URL

[Cyberbullying Detection (cyberbullying-detection-docker.azurewebsites.net)](https://cyberbullying-detection-docker.azurewebsites.net/)

## Code

The code is present in a GitHub repository below.   
[anuragwatane/Cyberbullying\_Detection (github.com)](https://github.com/anuragwatane/Cyberbullying_Detection)

### Command to clone the GitHub repository

$ git clone <https://github.com/anuragwatane/Cyberbullying_Detection.git>

The information about the repository structure and code files is mentioned in README.md file

[Cyberbullying\_Detection/README.md at main · anuragwatane/Cyberbullying\_Detection (github.com)](https://github.com/anuragwatane/Cyberbullying_Detection/blob/main/README.md)

## Commands to create Virtual Environment

$ pip install virtualenv

$ cd <path to project directory>

$ virtualenv venv

$ venv\Scripts\activate

## Command to install required packages

Make sure virtual environment is activated

$ pip install -r requirements.txt

## Command to run Flask App on local machine

Make sure virtual environment is activated

### Set the file with starting point

$ set FLASK\_APP=app.py

### Start the Flask App to access from IPv4 address

$ flask run --host 0.0.0.0

## Docker command to build the Flask app

$ cd <path to project directory>

$ docker build -t cyberbullying-detection:<tag-name> .

## Tag and push to Docker Hub

$ docker login

$ docker tag cyberbullying-detection:<tag-name> anuragwatane/cyberbullying-detection-repo:BERT-tag

$ docker push anuragwatane/cyberbullying-detection-repo:BERT-tag

## Docker command to RUN the app

$ docker pull anuragwatane/cyberbullying-detection-repo:BERT-tag

$ docker run -p 4000:80 anuragwatane/cyberbullying-detection-repo:BERT-tag

## Docker Hub repository URL

<https://hub.docker.com/repository/docker/anuragwatane/cyberbullying-detection-repo>

## Dataset Used

[UMICH SI650 - Sentiment Classification | Kaggle](https://www.kaggle.com/c/si650winter11/overview)