BTL Học phần IT5384 Lưu trữ và xử lý dữ liệu lớn

Lớp: CLC HTTT K64

Nhóm 2:

Bùi Tùng Anh Nguyễn Duy Cương Nguyễn Trần Hiếu Giang

Problem 1: Evaluate users by Geographical area





MỤC TIÊU BÀI TOÁN

1

Phân loại người dùng theo khu vực địa lý

2

Nhận dạng người dùng liên quan tới web3 3

Phân loại người dùng theo dự án quan tâm

THỰC HIỆN

Data Crawling



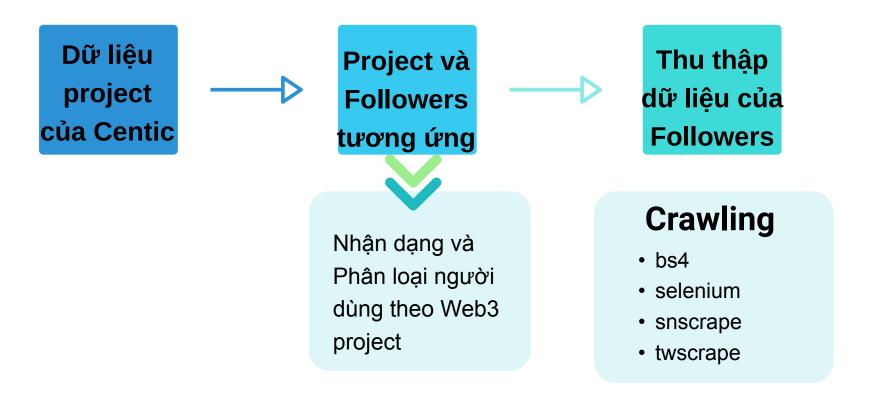
Data Processing



Data Analyzing

I, Thu thập Dữ liệu





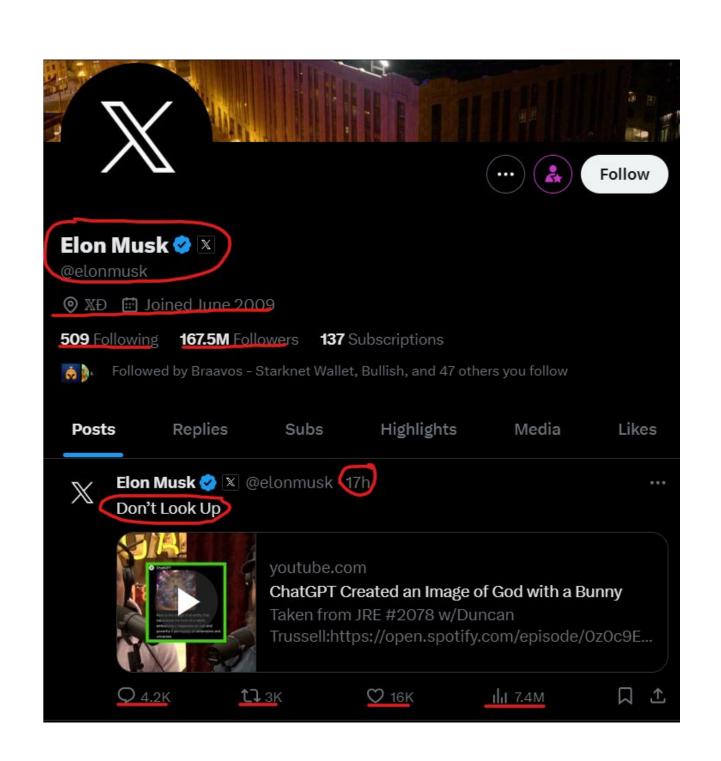
Dữ liệu thông tin người dùng từ X Profile gồm có:

```
"id": 1478269476076351488,
"username": "VioletAbtahi",
"displayName": "Violet Abtahi",
"url": "https://twitter.com/VioletAbtahi",
"intro": "COO @enyaai | Co-founder @bobanetwork
"join_date": "2022-01-04T07:38:16+00:00",
"location": "San Francisco, CA",
"friends_count": 1529,
"favorite_count": 277,
"followers_count": 1531,
"media_count": 9,
"status_count": 190,
"listed_count": 29,
"is_protected": null,
"is_verified": false,
```

```
"user": "VioletAbtahi",
"tweet_id": 1585967548553564160,
"tweet content": "love japan web 30 community",
"tweet_created_at": "2022-10-28T12:11:44+00:00",
"like count": 8.
"retweet_count": 3,
"comment_count": 2,
"view_count": null,
"quote_count": 0,
"hashtags": [],
"place": {
   "id": "a56612250c754f23",
   "fullName": "Tokyo-to, Japan",
   "name": "Tokyo-to",
   "type": "admin",
   "country": "Japan",
"countryCode": "JP"
"mentioned_users": [],
"long-lat": [
    -83.54424285888672,
   26.01139259338379
```







II, Xử lý dữ liệu

Bot check

- Classification
- Kaggel LabeledData



Text processing

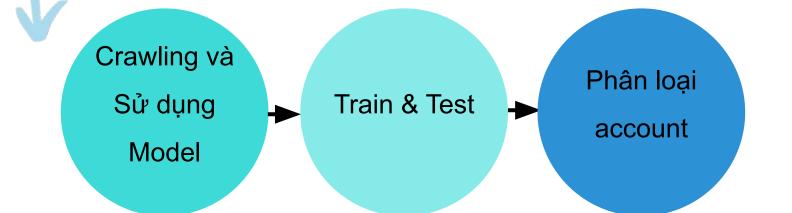
- Tokenize, lemmatizer
 NLTK
- Remove emoji, stopword, special character,...

Name	Description	type
id	Twitter ID for user account	integer
account_type	indicator of the account type (bot or human)	string



Model Card for Model Geo-BERT-multilingual

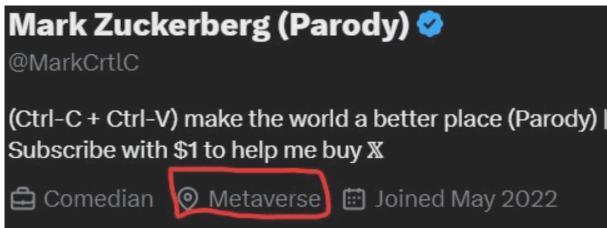
This model predicts the geolocation of short texts (less than 500 words)

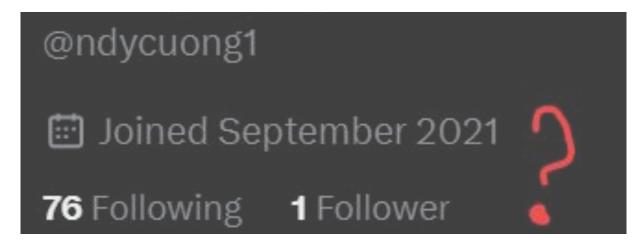


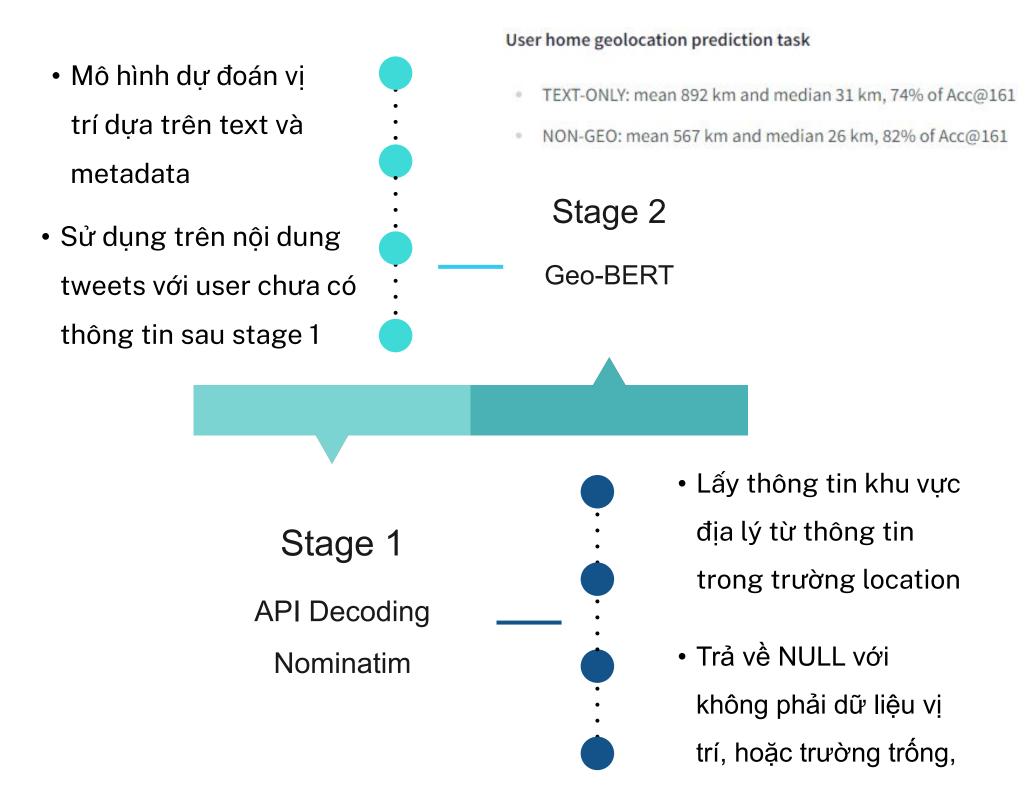
III, Phân tích dữ liệu

Dự đoán vị trí người dùng







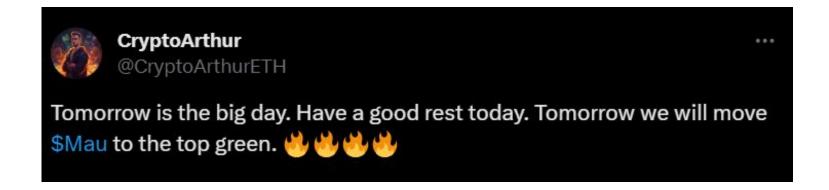


III, Phân tích dữ liệu

Tweet Sentiment Analysis

twitter-XLM-roBERTa-base for Sentiment Analysis

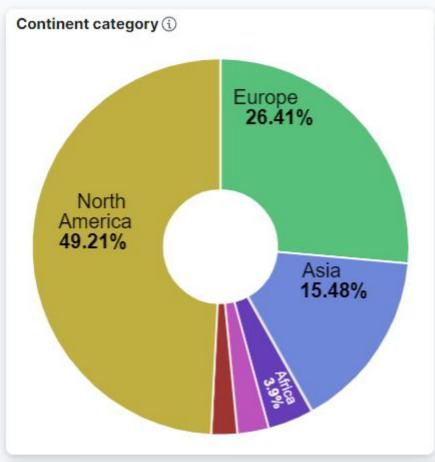
This is a multilingual XLM-roBERTa-base model trained on ~198M tweets and finetuned for sentiment analysis. The sentiment fine-tuning was done on 8 languages (Ar, En, Fr, De, Hi, It, Sp, Pt) but it can be used for more languages (see paper for details).

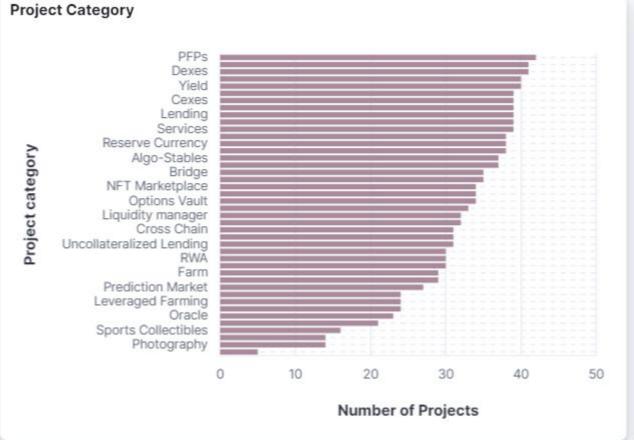


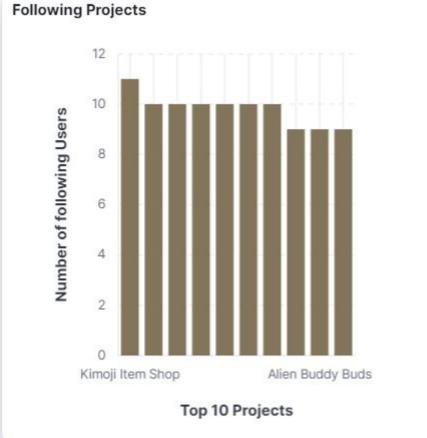
[{'label': 'positive', 'score': 0.7345331311225891}]

PROCESS









The number of Users

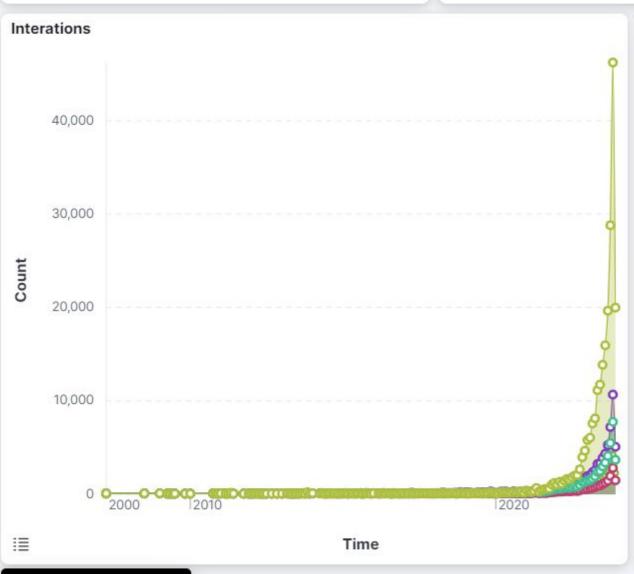
7,215

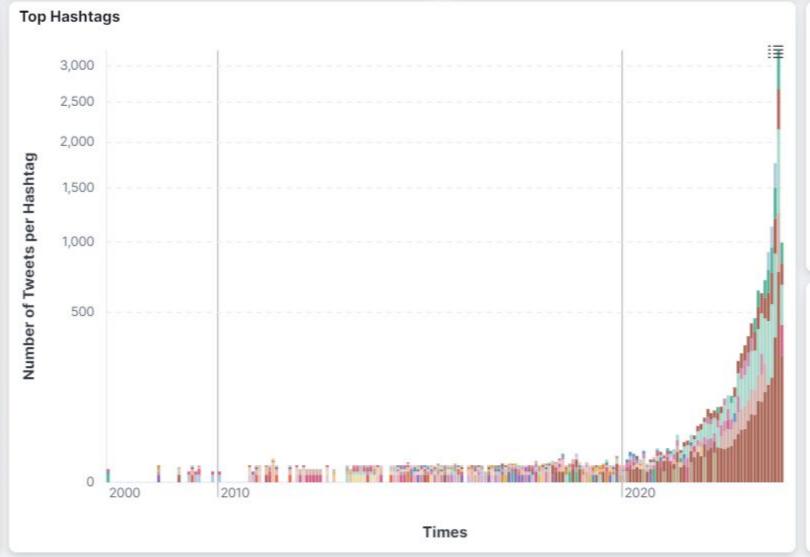
Total Tweets

Total Users

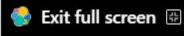
The number of Tweets

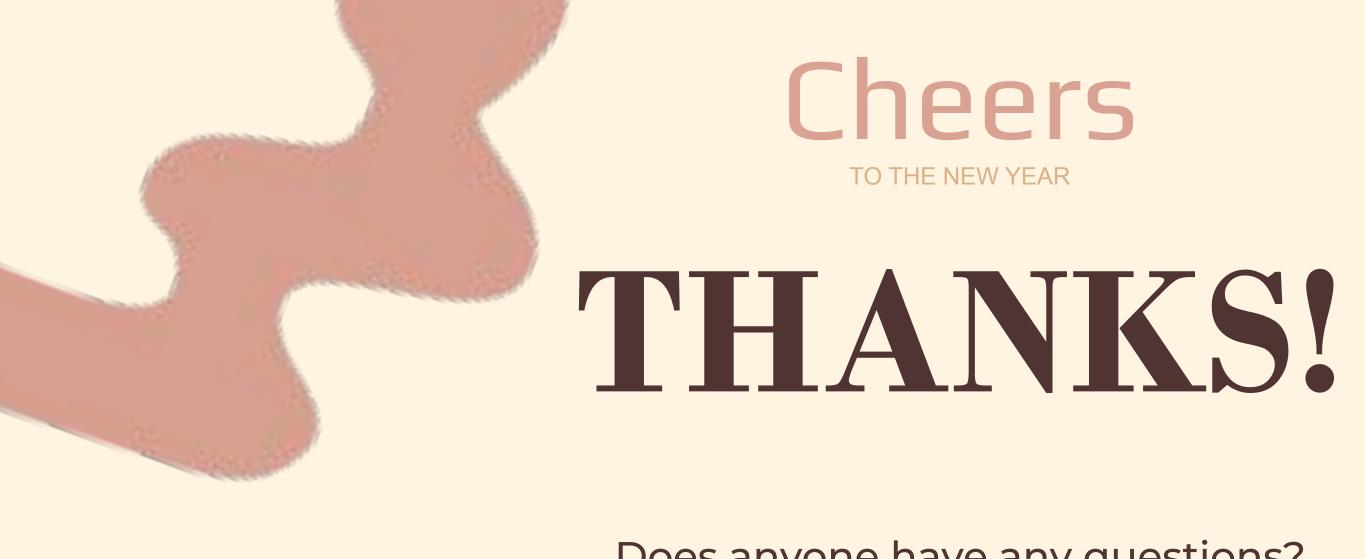
239,409













Does anyone have any questions?





