User Profiling On Twitter

Project Description:

Studying user profile is important for many applications, ex: intelligent agents, adaptive systems, intelligent tutoring systems, recommender systems, intelligent e-commerce applications, etc.

We will build a web application that analyzes tweets of an input user (or any collection of tweets), and detects demographics (age, gender, country), topics of interest, dialect, etc. in addition to statistics and timeline of these tweets.

Duties/Activities:

- Use twitter API
- Develop code to collect and manage tweets/data
- Design web interface for the application
- Build web interface to demonstrate the tools

Required Skills:

- Java/Python
- Web development
- Understanding Arabic is a plus

Preferred Intern Academic Level:

- Junior/Senior levels

Learning Opportunities:

- This internship will help interns to immerse in coding and using various NLP libraries. It will help as well to get familiar with web development and build full stack profile.

Expected Team Size: *it is preferable to have team projects*

- 2 to 4

Mentors

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User Profiling On Twitter

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Motivation: Studying user profile is important for many applications, e.g., intelligent agents, adaptive systems, intelligent tutoring systems, recommender systems, intelligent e-commerce applications, etc.

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Twitter Account
- @jamalrayyan

Twitter API
- Tweets history
- File of tweets
- Tweets.json

Our System
- Gender, Age, Nationality
- Topics of Interest
- Dialect ID
- Offensive Language
- Country

Profile info: image, description, tweets, statistics: activity timeline, most liked tweets, most retweeted tweets, top hashtags, wordclouds...

Profile: Male
- Age: 50-60
- Palestine: 50%, Jordan: 26%, Egypt: 22%

Hashtags:
- #فلسطين 100
- #مصر 50
- #الخليج 30
- #الجذبنة 20
- #مصاصة 10

Skills
- Java/Python
- Web development
- Understanding Arabic is a plus

Modern Standard Arabic: 70%, Levantine: 30%
Offensive: 20%, Clear: 80%