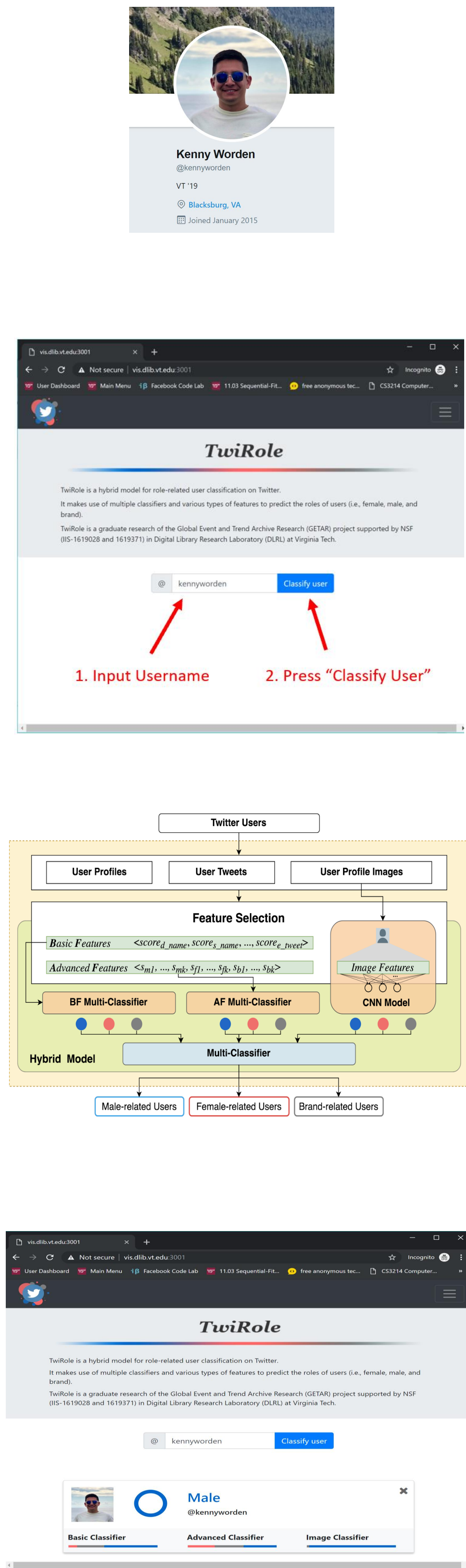


Twitter Role Classification

Gregory Pickett, Kenneth Worden and Adam Wilborn
 CS 4624 – Multimedia, Hypertext, and Information Access Spring 2019

Overview:



Twitter user

Front end

Back end

Results

Problem:

- Improve existing model
- Develop web application for model

Purpose:

- Social scientists can have user –centered research
- Consumer-oriented companies can provide targeted services
- Classify general twitter users

Solution:

- Added advanced feature of emoji frequency

```

training_male_screen_name = benchmark.screen_name[training_male_index]
training_female_screen_name = benchmark.screen_name[training_female_index]
training_brand_screen_name = benchmark.screen_name[training_brand_index]

ktop_emojis_dict = sc.get_ktop_emojis(training_male_screen_name,
                                     training_female_screen_name,
                                     training_brand_screen_name,
                                     'benchmark_1/tweets_clean', 10)

[(':', '+1:', 1304), (:, 'fire:', 247), (:, 'rofl:', 177), (:, 'large_blue_circ', 131), (:, 'white_circle:', 126), (:, 'punch:', 112), (:, 'bear:', 103), (:, 'squid:', 102), (:, 'comet:', 99), (:, 'man_shrugging:', 96)]
[(':', 'sob:', 16389), (:, 'heart_eyes:', 14282), (:, 'joy:', 10243), (:, 'kissing_heart:', 7534), (:, 'blush:', 4782), (:, 'weary:', 4010), (:, 'two_hearts:', 2884), (:, 'purple_heart:', 2825), (:, 'roll_eyes:', 2115), (:, 'tada:', 1902)]
[(':', 'rotating_light:', 114), (:, 'point_right:', 99), (:, 'spider:', 97), (:, 'studio_microphone:', 76), (:, 'rocket:', 76), (:, 'minidisc:', 67), (:, 'shopping:', 67), (:, 'india:', 65), (:, 'jp:', 41), (:, 'tickets:', 36)]
  
```

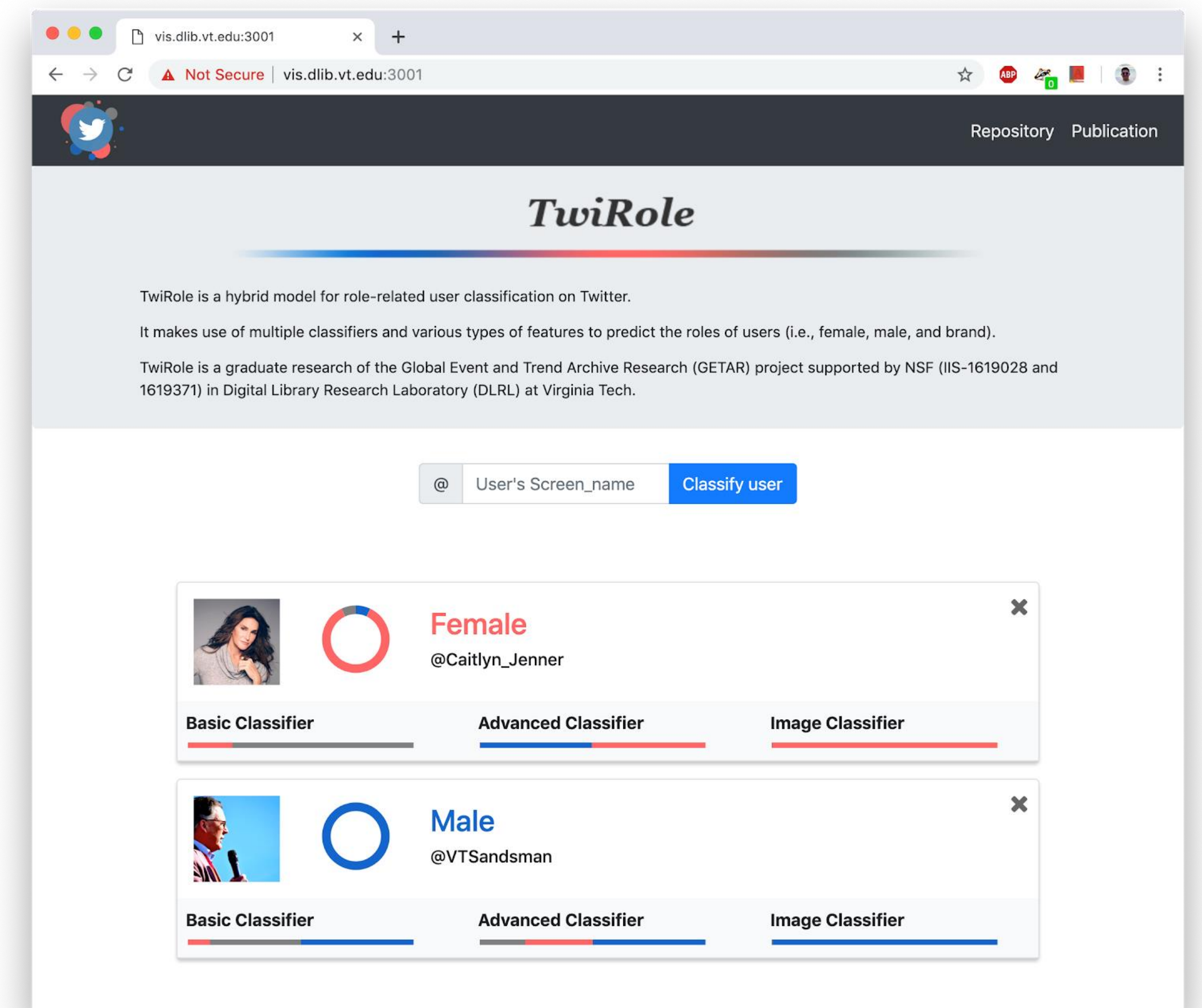
Male
 Female
 Brand

Emojis commonly used by each class

- Added basic classifier that calculates second person score

Website: vis.dlib.vt.edu:3001

- Hosted by DLIB of Digital Library Research Laboratory



Final Website design