MAIS202 FINAL PROJECT

Myer-Briggs Classifier

AUTHOR

Logan Ralston

GITHUB

https://github.com/logan-r/myers-briggs

BRIEF

The purpose of this project will be to use machine learning methods to automatically infer a person's personality from their social media posts. Using the Kaggle dataset https://www.kaggle.com/datasnaek/mbti-type/home which matches a person's last 500 social media posts to their MBTI (Myer-Briggs Type Indicator) and text classification methods, the intent is to build a web application where the user can input a given social media account (this will initially be limited to Facebook and Twitter, but if I have enough time, could include other platforms such as Instagram and YouTube), and the info on that account will be fetch via the corresponding API. Then this data will be used to classify the user into one of the 16 personality types.

METHODOLOGY

i. *Data Preproccesing*
   Because the Myer-Briggs type indicators operate across 4 dimensions, I will need to decide if I want to correlate the inputs (i.e. social media posts) to every specific compound output (e.g. ISTJ) or to a dimension (e.g. just I vs E). Further, someone the social media post (e.g. links to websites, videos) will be much harder to analyze than pure text posts, so for the initial draft of this project I will remove all none-text posts – though it should be noted that this may bias the data (e.g. a ISTJ could be more likely to post links to videos than a ESFP) so, time permitting, I will attempt to expand the model to include non-text based inputs.

ii. *Machine Learning Model*
   This project will use a deep neural network to classify the social media posts.

iii. *Final Conceptualization*
   This project will be implemented as a web application.