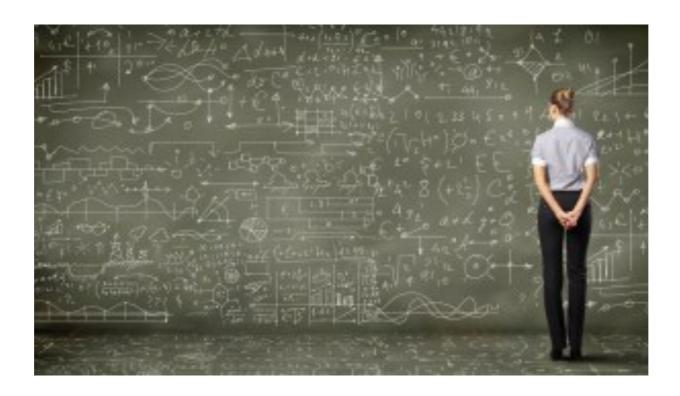
# Becoming a Data Analyst



Zareen Farooqui
Outreachy Data Analyst Intern, Wikimedia Foundation



























What now?









# Self-study

#### **Fundamentals:**

















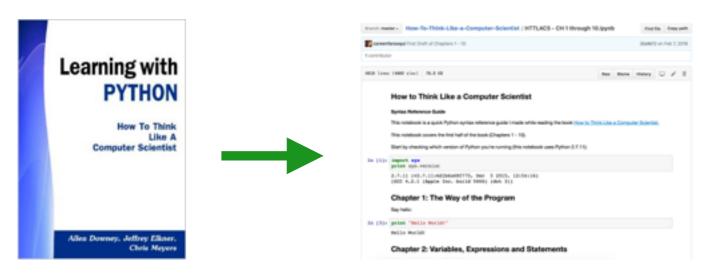


#### **Project:**

- ~1 month
- reinforce what I just learned
- pick fun topic
- share with community

# Python

#### **Fundamentals:**





2 reference guides

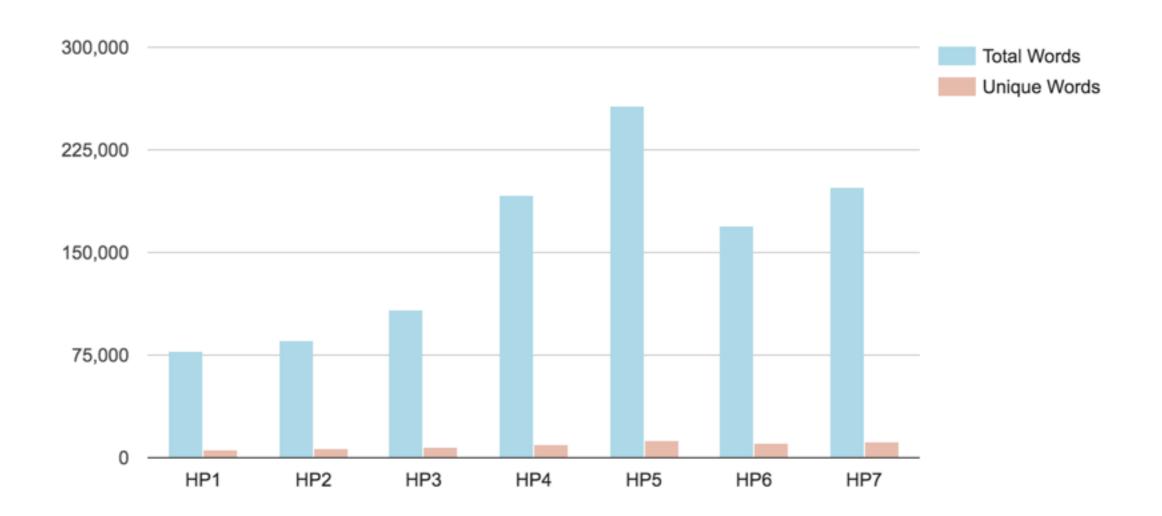
#### **Project:**



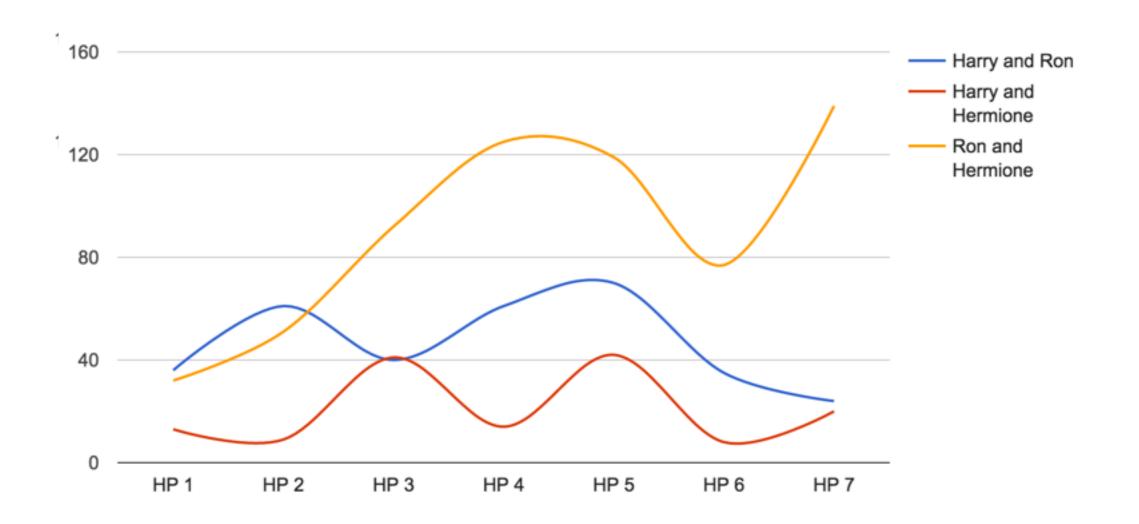
#### Goals:

- analyze text of 7 HP books
- write pure python (no NLP libraries)
- use 1 external API + Amazon S3 + viz engine
- interesting insights

### Project: HP Text Analysis

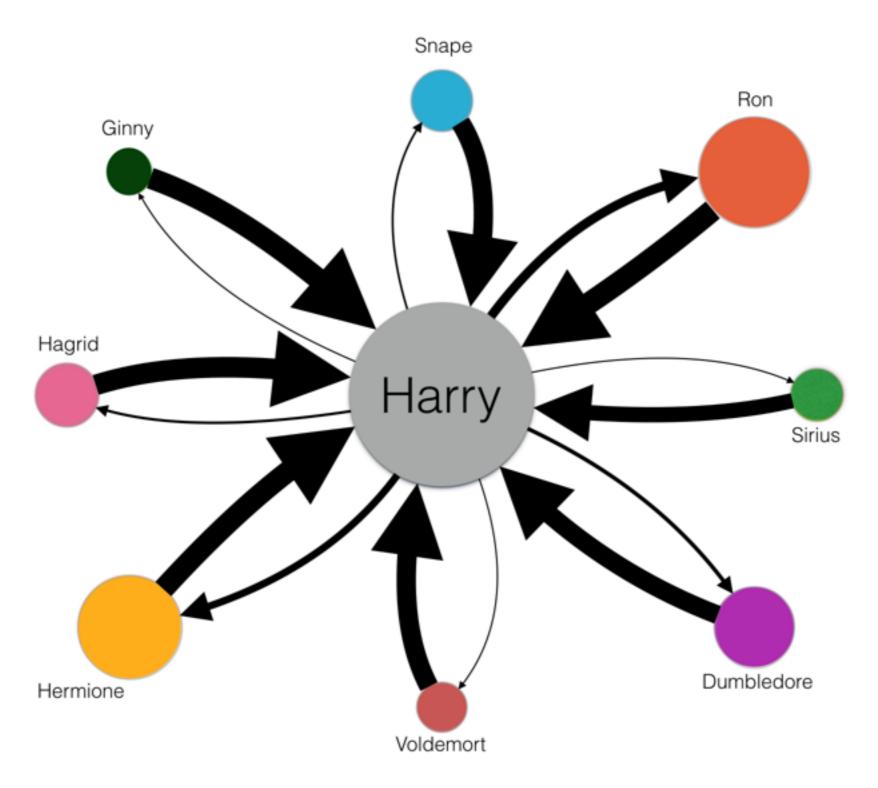


### Project: HP Text Analysis



best friend trigram

### Project: HP Text Analysis



HP character relationship strength

### Web Development + ML

#### **Fundamentals:**







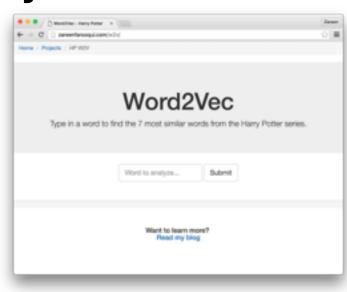




- HTML
- CSS
- JavaScript
- Bootstrap

- word2vec
- web framework database

#### **Project:**



#### Goals:

- use EC2 server in cloud to host web app
- write back end + front end
- use 1 ML algorithm
- make interactive for public

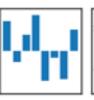
Demo:

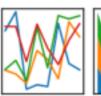
www.zareenfarooqui.com/w2v

# Data Analysis

#### **Fundamentals:**















python library

sentdex video tutorials

### clickstream data

#### **Project:**

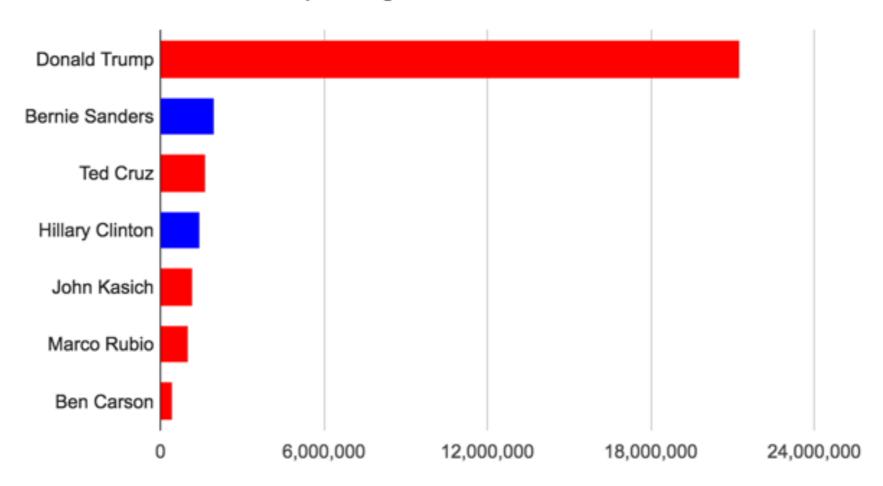


#### Goals:

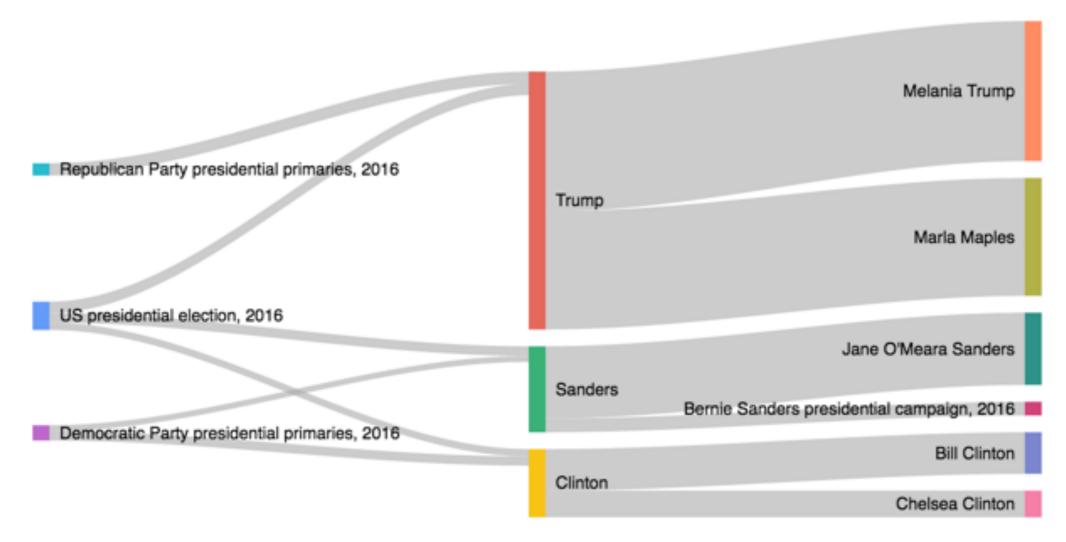
- learn + use pandas library
- analyze social media
- use google charts for data viz

## Project: US Elections

#### March 2016 Wikipedia Page Visits

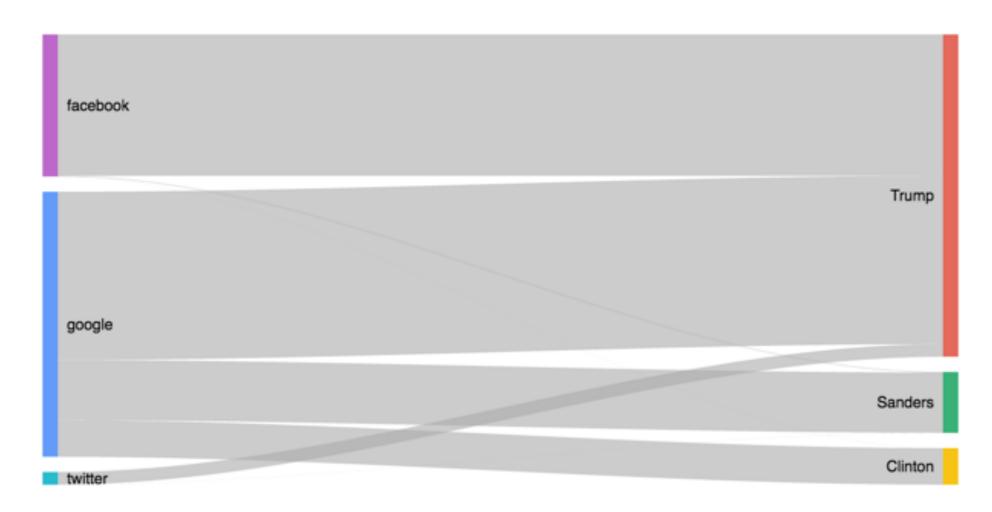


### Project: US Elections



sankey diagram showing incoming and outgoing traffic

# Project: US Elections



March 2016 FB, Google and Twitter traffic to candidate pages

# Advice

- Find a technical mentor
- Go to local meetups + get coffee with contacts
- PROJECT WORK!!!!

# Current







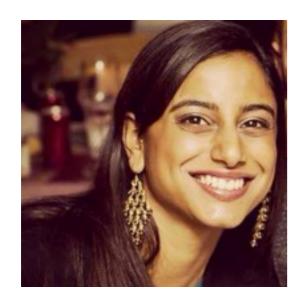
- 3 month, remote paid internship
- work on open source projects
- for women + underrepresented minorities in tech

# Future



"The more I learn, the more I realize how much I don't know"

- study more math/statistics
- full time job in analytics







in linkedin.com/in/zareenfarooqui