

## **Fake News Challenge**

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## Fake News - "a made-up story with an intention to deceive"

#### Not having accurate facts is DANGEROUS!

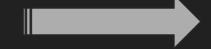
- "When Surgeons cut off the wrong body part" NY Times
- Pizzagate "a fake news story...moved one man to shoot up a pizzeria that was linked by bogus statements to human trafficking and a presidential candidate..." NY Times
- "Fake News affects American politics" The Verge

#### Disinformation is not new:

Ever since Octavian's fabricated archaic 'tweet's' on coins helped to dominate Mark Antony's fate...

#### However, Speed, Breadth and Depth have accelerated

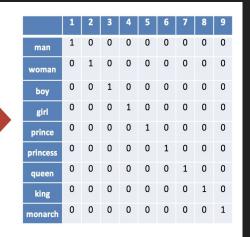


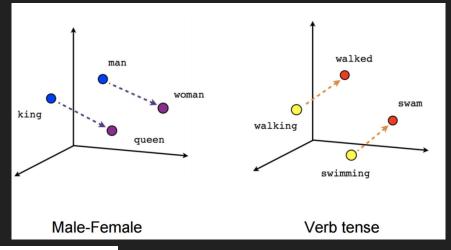


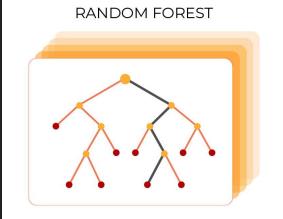


# Project methodology

Vocabulary:
Man, woman, boy,
girl, prince,
princess, queen,
king, monarch

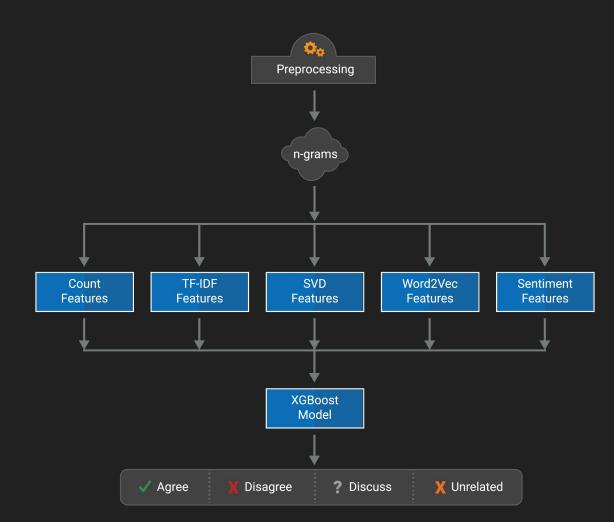






Tree Model

Predict stance with 93% accuracy



### Future work

- Improve model performance
  - Different preprocessing
  - Model parameters
  - Explore
  - Feature importance which help most and why?
- Model visualizations
- Build Convolutional Neural Network
- Begin real world application
  - Scrape news sites, archive data
  - Build a working record of sources and reliability

# Thank you!