Group Project #3

**Members:**

Michael High, John Hopkins, Jay Cha

**Proposal:**

Use Machine Learning to devise a model to determine whether given news articles are fake news or not. Use Pandas/Jupyter Notebook to import predefined dataset, train a ML model then save trained model into a file format.

Create a Web GUI interface for an end user to feed an article URL or title and first few lines of the article. Let the server side code to run the article summary into the model to determine whether it’s likely a fake news or not.

**Random Items:**

* Create a web form to feed an article from sources like the Onion News and see whether the trained model detects it as fake news.
* Train the model using the predefined (~7800) then upload it to a hosting site.
* Flask backend server handing the requests.
* Javascript-enabled frontend.
* Need to import the raw data into Pandas first to clean up first.

**Tech Stacks:**

* Python Pandas – data cleanup (Jay/John)
* HTML/CSS/Bootstrap – frontend (Mike)
* Flask app hosted on Heroku – backend (Mike)
* Scikit-Learn – Machine Learning (Jay/John)
* Deployment (TBD – requires doc reading)
* Powerpoint (TBD)

**Dataset Source:**

https://drive.google.com/file/d/1er9NJTLUA3qnRuyhfzuN0XUsoIC4a-\_q/view