Rachael M. Harris

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EDUCATION

Allegheny College
August 2019 – May 2023

Bachelor of Science in Computer Science
Overall GPA: 3.69 / 4.00

- Minors: Political Science, Philosophy
Major GPA: 3.85 / 4.00

EXPERIENCE

Prudential Financial
June 2021 – August 2021

Software Engineer & Data Analytics Intern
Newark, NJ

- Wrote queries to analyze department data in five MongoDB collections to calculate vendor and package turnaround times, leading to a 33% increase in the number of routine checks on the efficiency of benefits package delivery
- Visualized the aggregated data using Tableau, allowing 25 managers to have access to daily, monthly, and yearly automated reviews
- Collaborated with global engineers in Agile environment to create a dashboard for sentiment analysis on social media posts
- Implemented sentiment analysis using Python and Amazon Web Services (Lambda, Comprehend, Kinesis Firehouse, DynamoDB, and Elastic Search), allowing public relations officers to detect changes in public opinion after large business decisions

CX.i
January 2021 – April 2021

Data Science Intern
Dallas, TX

- Implemented in Java targeted recommendation algorithms that suggest products aligning with consumers' personal values and convenience scores, improving customer sentiment by 35%
- Developed backend infrastructure to connect data pipelines to point-of-sale APIs

Mozilla @ Allegheny College
September 2020 – December 2020

Ethical Technical Leader
Meadville, PA

- Collaborated with Dr. Janyl Jumadinova under Mozilla's Ethics in Computer Science initiative to create a sorting and labeling bot to determine how far false information spreads over social media at a critical time in communication
- Trained an AI, using scikit-learn and a prepared data set, to detect disinformation and misinformation in tweets and to generate a validity and truthfulness score based on the amount of false information contained within the text
- Displayed the scores using Naïve Bayes and Linear SVM
- Leveraged Twitter's API to extract data from tweets, namely text, username, verification status, and location, allowing users to search for tweets using hashtag, keyword, and username

PROJECTS

Technology Policy Node Map (BiPartisan Policy Center)

- Implemented ProPublica's API to scrape congress.gov for information on present legislators including state, party, and legislation that they have sponsored to filter into an automatically updated Neptune database for results caching
- Utilized NetworkX to generate an interactive knowledge graph connecting officials to technology legislation that they have supported to present key areas of focus for 15 policy researchers

SKILLS

Languages : Python, Java, R
Tools : SQL (PostgreSQL, mySQL), Git, Version Control, Docker, TravisCI