Brian Fernando

brianfdo3@gmail.com | 203-694-4990 | github.com/brianfdo | linkedin.com/in/brianfdo

Education

Purdue University — West Lafayette, Indiana
Bachelor of Science in Computer Science, Data Science, and Applied Statistics — May 2024

- ***GPA**:* 4.0
- ***Honors/Awards**:* IronHacks COVID-19 Data Science Hackathon Winner, Dean's List & Semester Honors (Fall 2020 - Spring 2022), Xerox Award for Innovation and Information Technology, RIT Computing Medal Award
- ***Relevant Coursework**:* Intro to Data Science, Statistics for Data Science, Probability, Statistical Theory, Object-Oriented Programming, Data Structures and Algorithms, Discrete Mathematics, Information Systems, Data Mining and Machine Learning, Applied Regression Analysis

Experience

Collins Aerospace — East Hartford, Connecticut
Data Science Intern — May 2022 – August 2022

- Utilized MLflow and Apache Spark to standardize the development and serving of machine learning models within the Ascentia analytics framework
- Provided capability of developing analytics with machine learning to effectively monitor the health status of various aircraft components

Sandia National Laboratories — West Lafayette, Indiana
Undergraduate Data Science Researcher — August 2021 – May 2022

- Used data engineering techniques to develop the analytic toolkit that will be used to process experimental wargame data
- Experimented with various machine learning techniques to investigate the impacts of information and communication on cyber deterrence effectiveness

Purdue University — West Lafayette, Indiana
Undergraduate Teaching Assistant — August 2021 - Present

- Hosted in-person lab sessions to assist undergraduates with questions on class topics or assignments
- Monitored and answered students' questions through online help forum

Projects

ArticleExtract (Text Summarizer)

- Created a web browser extension that uses NLP to create summaries from online news articles
- Used BeautifulSoup to scrape online news articles along with NLTK for extractive summarization techniques

MaskMandator (Real-Time Mask Detector)

- Utilized Keras and OpenCV to create an application that uses image recognition to identify whether a person is wearing a mask in real time
- Trained CNN model with 92% accuracy for face mask object detection using Kaggle's Facemask dataset

Skills, Activities, & Interests

Technical Skills: Python, Java, R, SQL, HTML, CSS, Git, JavaScript, Spark, BigQuery, Flask, React, Docker
Dev Tools: NumPy, pandas, scikit-learn, Matplotlib, Keras, Selenium, MLflow, Databricks, MongoDB, Kubernetes
Activities: Hello World Hackathon (Organizer Lead), Purdue American Statistical Association, Purdue ACM SigAI