

Mileva Van Tuyl

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EDUCATION

New College of Florida, Sarasota, FL, M.S. Applied Data Science, GPA: 4.00/ 4.00 Aug 2021 – Dec 2022
Wellesley College, Wellesley, MA, B.A. Computer Science, GPA: 3.97/ 4.00 Sept 2017 – June 2021

Selected Coursework: Machine Learning, Statistical Modeling, Algorithms, Software Engineering, Natural Language Processing, Databases, Distributed Computing, Data Visualization, Linear Algebra, Probability, Combinatorics and Graph Theory, Ethics of Tech

SKILLS AND CERTIFICATES

Technical Skills: Python, R, SQL, Java, HTML/ CSS/ JavaScript

Python Libraries/ Frameworks: Scikit-learn, Pandas, NumPy, TensorFlow, Matplotlib, Seaborn, Plotly, PySpark, Flask

Misc. Technologies: Git, Jupyter, Linux, IBM Cloud

Certificates: NVIDIA Fundamentals of Deep Learning, NVIDIA Fundamentals of Accelerated Computing with CUDA Python

TECHNICAL EXPERIENCE

IBM, San Francisco, CA May 2022 – Aug 2022

Data Scientist Intern - Data and AI

- Advanced the development of AI Fairness 360, an open-source toolkit to detect and mitigate bias throughout the AI lifecycle.
- Developed fairness metrics, algorithms, and documentation to foster adoption of trustworthy machine learning (**R, GitHub**).
- Analyzed finance and product data to derive business insights surrounding customer acquisition and retention (**Python**).
- Designed data pipelines and dashboards to present key performance metrics to executives and senior management.

Minerva Analysis, Arlington, VA June 2020 – Present

Data Scientist

- Engineer predictive models from diabetes and dietary data to improve health outcomes for type 1 diabetics (**SQL, Python**).
- Create data visualizations and web applications to illustrate the effect of insulin and carbs on glucose levels (**Plotly, Flask**).

Genospace, Boston, MA June 2021 – Aug 2021

Software Engineering Intern

- Developed data processing systems and pipelines for electronic health records to advance clinical trial research.
- Built full stack web applications using **Vue.js, Grails, MongoDB, and Elasticsearch** for users to find medical files.
- Contributed to all stages of the agile software development life cycle from planning user stories to deploying with **Docker**.

MIT Media Lab, Cambridge, MA May 2020 – Jan 2021

Project Co-Lead, Machine Learning Team Lead

- Led an eleven-person team to develop a COVID-19 technology that alerts users if they touch their faces.
- Improved the machine learning model's performance by >15% and deployed the model in the iOS application using **Swift**.
- Applied statistical and machine learning techniques (including logistic regression, decision trees, and neural networks) to analyze audio data and implement, optimize, and validate machine learning models (**Python, Scikit-learn**).
- Defined project requirements and designed experiments to understand product functionality and drive feature design.

Wellesley Cred Lab, Wellesley, MA Sept 2018 – Aug 2019

Research Fellow

- Collected and analyzed over 2.5 million tweets using **Python** to study the spread of misinformation around the 2016 election.
- Extracted content from over 5000 Google pages to study the portrayal of news sources on Google and Wikipedia (**Python**).

PUBLICATIONS & SELECTED PRESENTATIONS

A Scalable Solution for Signaling Face Touches to Reduce the Spread of Surface-based Pathogens, **IMWUT** Mar 2021
Machine Learning for Gesture Recognition to Reduce COVID-19 Transmission, **UMass Amherst** Feb 2021
"Don't Touch Your Face": A Scalable Mobile Technology to Support the Fight Against COVID-19, **Harvard** Jan 2021

AWARDS & HONORS

Grace Hopper Celebration Scholar Oct 2021
Phi Beta Kappa June 2021
Jacqueline Fowler '49 Public Speaking Prize, Ruhlman Conference, Wellesley College May 2021
Best Poster Award, Voices of Data Science Conference, UMass Amherst Feb 2021