Anna Gutowska

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EDUCATION

Rutgers University Honors College, New Brunswick, NJ   **August 2019 – May 2023**
Bachelor of Science (B.S.), double major in Computer Science and Cognitive Science (GPA: 3.89)
- <u>Honors/Awards:</u> Summa cum laude, Phi Beta Kappa Honor Society, Greek Scholar Award, Dean's List (all years).
- <u>Publications:</u> Tawfiq, A., Gutowska, A., Ziff, J., Subramonyam, H. From the CDC to the Public: Analyzing Twitter's Role in Shaping Divisive Health Discussions. (In progress)

WORK EXPERIENCE

Data Science Research Assistant – Computational Social Science Lab   **September 2021 – March 2024**
Rutgers School of Communication and Information   New Brunswick, NJ
- Utilized the Twitter API to collect and clean 233,294 CDC-related Tweets to perform sentiment analysis (NLP), data visualization, qualitative coding, BERTopic modeling and other LLMs via Python, R, and Tableau.
- Built exponential random graph models (ERGMs) and multi-layered networks for complex social networks in R.
- Investigated how racial and ethnic minority groups access COVID-related information on social networks. Presented this data science research at the Aresty Undergraduate Research Symposium and co-authored a related publication.

Full-Stack Developer Intern   **June 2022 – August 2022**
Rutgers Computer Science Department   New Brunswick, NJ
- Designed and engineered a grading platform, CodeBench, used by 1,000+ Rutgers students in 3 Data Science courses.
- Collaborated with You.com to integrate its search engine UI elements within the platform via React.js and JavaScript.
- Evaluated and monitored A/B tests through sending surveys and conducting 15 interviews with students.

Software Engineer Intern   **June 2021 – August 2021**
Adventure Networks   New York, NY
- Developed front-end features in the interactive chatroom platform, trychats, using JavaScript, CSS, and HTML.
- Researched NFTs, gpt-3, cryptocurrencies, decentralized networks, blockchain technology, and artificial intelligence.

VOLUNTEER EXPERIENCE & LEADERSHIP

Data Engineer   **March 2021 – Present**
The Percentage Project, Inc.   New York, NY
- Collected, analyzed, cleaned, and visualized data through campus-wide surveys of 1,300+ students in tech fields.
- Consolidated previously collected survey data from Qualtrics to AWS for all 27 colleges that participated.
- Executed year-by-year comparative inter-school analysis of the survey results using Python and ETL tools to highlight the clear diversity gap in technology education as seen through significant shifts in sentiment over time.

Chief Technology Officer (CTO)   **March 2021 – February 2024**
Polish Youth Association   New York, NY
- Led organization-wide instructional workshops demonstrating relevant technical tools in an understandable manner.
- Managed the nonprofit's website and Google Suite while troubleshooting technical issues for all 30+ officers.

Computer Science Peer Tutor   **January 2023 – May 2023**
Rutgers School of Arts and Sciences Honors Program   New Brunswick, NJ
- Tutored 4 undergraduate students one-on-one with a focus on the Introduction to Computer Science course.
- Crafted effective learning plans to simplify introductory computer algorithms and data structures using Java.

PROJECTS

Epileptic Seizure Classifier
- Built and trained a convolutional neural network (CNN) on the CHB-MIT EEG dataset with 72% prediction accuracy.
- Converted the model to a spiking implementation using Nengo API via a Python Conda environment with Tensorflow.

Bookshelf App
- Programmed an iOS app using Swift to allow users to track the title, author, and genre of their favorite books.
- Incorporated SQLite as the database engine for storing, editing, adding, and deleting the data of each book.

Bender Trust Equity Research Project and Competition
- Performed investment analysis of the equity and KPIs of Merck & Co to make a stock recommendation and forecast.
- Formulated an equity research report and presented it to Greg Francfort, a portfolio manager at Neuberger Berman.

TECHNICAL SKILLS & CERTIFICATIONS

Technical Skills: Python, Java, R, React, Swift, C, SQL, MATLAB, JavaScript, CSS, HTML, Bash, Linux OS, Microsoft Office (Outlook, Word, Excel, PowerPoint).
Frameworks/Cloud-Based Infrastructures: AWS, Git, Visual Studio, Intellij, RStudio.