Michael Guldberg - Data Scientist

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PROFESSIONAL EXPERIENCE

CLINICAL DATA SCIENCE INTERN   **Portland, OR**
Sparrow Pharmaceuticals   **June 2024 - Present**
- Developed UI for collecting daily patient-reported outcomes using Python, AWS, and front-end frameworks.
    - Created protocol for and conducted qualitative patient interviews to establish its validity.
- Used R to perform psychometric factor analysis modeling to validate Phase 2 clinical trial data.
- Analyzed patient-reported outcomes data against physician treatment to ensure accuracy during clinical trials.
- Reported directly to the CSO / founder.

PROFESSIONAL ATHLETE   **Oakland, CA**
Oakland Athletics   **June 2020 - June 2023**
- Drafted in the 3rd round (98th overall) of the 2020 MLB Draft.
- Utilized machine learning and advanced analytics software to analyze and predict [game](#) and [physiological wellness data](#), providing actionable insights for maximizing performance both on and off the field.

DATA SCIENCE INTERN   **Atlanta, GA**
Terbium Labs   **May 2019 - Aug 2019**
- Implemented data scraping and machine learning techniques to identify thousands of exposed credentials, credit card information, and doxing instances across the dark web.
- Enhanced the cybersecurity database, aiding in proactive threat detection for current and prospective clients and contributing to the company's acquisition by Deloitte in 2021.

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY   **GPA: 4.0 / 4.0**   **Berkeley, CA**
Master of Information and Data Science   **Aug 2023 - Dec 2024**
- **Coursework**: Applied Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Data Engineering, Data Visualization, Experiments and Causal Inference, Research Design, Statistics
- [**Projects**](#): Bay Wheels Analytics, Housing Prices / School Quality Analysis, Voting Difficulty Analysis

GEORGIA INSTITUTE OF TECHNOLOGY   **GPA: 3.79 / 4.0**   **Atlanta, GA**
Bachelor of Industrial and Systems Engineering, Minor in Computer Science   **Aug 2017 - Dec 2021**
- **Concentrations**: Analytics and Data Science, Computing and People
- **Coursework**: Machine Learning, Regression and Forecasting, Linear Algebra, Calculus (1-4), Optimization, Object Oriented Programming, Data Structures and Algorithms, Stochastic Processes, Discrete Mathematics, Software Engineering, Database Management, Human-Computer Interaction
- *Summa Cum Laude*; Varsity Baseball Athlete; 2x First Team Academic All-American; .374 career batting average

ADDITIONAL SKILLS

- **Data Science**: Machine Learning, Deep Learning, Neural Networks, Artificial Intelligence (AI), Time Series Forecasting, Data Cleaning / Manipulation, Exploratory Data Analysis (EDA), Data Visualization, Research Design, Data Engineering, ETL, Database Management, Statistical Analysis, Linear / Logistic Regression, Neural Networks, CNN, Random Forests, Gradient Boosting, K-Means, K- Nearest Neighbors (KNN), Support Vector Machines (SVM), Principal Component Analysis (PCA), Gradient Descent, Feature Engineering
- **Tools**: Python, R, SQL, Java, HTML, CSS, JavaScript, Pandas, NumPy, TensorFlow, Keras, SciKit-Learn, Matplotlib, Seaborn, Altair, Plotly, D3.js, Command Line Interface (CLI), Git / GitHub, Jupyter Notebook, RStudio, Tableau, Amazon Web Services (AWS), Docker, Redis, MongoDB, Neo4j, BeautifulSoup, Flask, Django, ggplot2, dplyr, data.table, React, Bootstrap.js, VS Code