

Michael Natole, Jr., PhD

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Summary

- Data Scientist with strong math/statistics background and 3+ years of experience that can quickly adapt to the application domain.
- Strong analytical and problem-solving abilities, with a proven track record of using data and machine learning models to drive business decisions.
- Skilled in using a variety of programming languages and tools, including Python, R, SQL, and Power BI.

Professional Experience

Regeneron Pharmaceuticals, East Greenbush, NY

Principal Process Data Scientist

Jan 2024 - Present

- Apply advanced numerical and statistical techniques including multivariate analysis, deep learning, and ensemble models to analyze large datasets of process and raw materials data to enhance process understanding.
- Apply data visualization tools and automated solutions to translate data into useful information for operations managers and process engineers.
- Played a key role in leading cross functional teams to analyze data sources and develop strategies and solutions to support the manufacturing performance monitoring process and technical investigations.

Sr. Process Data Scientist

Jul 2021 - Dec 2023

- Streamlined data processes to better help colleagues assisting with investigations.
- Applied machine learning models to improve process understanding.
- Built a data science team to assist colleagues and provide future directions to leadership.

Technical Expertise

- *Hard Skills:* Machine Learning (classification, regression, factor analysis, performance metrics), Data Analysis (acquisition, aggregation, and reporting), Statistics, Design of Experiments
- *Soft Skills:* Make complex technical concepts approachable for colleagues without expertise in technical domains; Strategize long-term scientific business goals; Self-motivated and ability to work autonomously.
- *Design Principles:* FAIR (Findable, Accessible, Interoperable, Reusable) Practices, Data Governance
- *Programming Languages:* Python, MATLAB, R, LaTeX, HTML, CSS, Git, SQL
- *Tools:* Dataiku, Tableau, Git, MS Office, JMP, SIMCA, Power BI, VS Code

Education

Doctor of Philosophy, Mathematics, University at Albany, Albany, NY, May 2020

Master of Arts, Mathematics, University at Albany, Albany, NY, December 2015

Bachelor of Science, Mathematics, University at Albany, Albany, NY, May 2013

Associate of Science, Engineering Science, Fulton-Montgomery CC, Johnstown, NY, May 2011

Projects

Wildfire Prediction Analysis: Using climatic, anthropogenic, and landscape factors, determine the significant factors that lead to wildfires using spatial data. Please visit my website to learn more.

Interests & Hobbies

Outside of work, I enjoy [app development](#) and fitness.