

# 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

*Sr. 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.

*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.