# Matthew Dolin

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## EDUCATION

**Master of Science in Data Science**
Drexel University
Concentration: Applied Artificial Intelligence/Machine Learning

June 2027 (Expected)
Philadelphia, PA

**Bachelor of Science in Computer Science**
Lehigh University
Minors: Data Science, Cognitive Science

May 2024
Bethlehem, PA
GPA: 3.45

## SKILLS

- **Programming Languages:** Python | SQL | R | Java | JavaScript
- **Data Analysis & Machine Learning:** Pandas | NumPy | SciPy | Scikit-Learn | Statistical Analysis | Data Cleaning
- **Data Visualization & BI:** Excel | Plotly | Power BI | Dashboard Development | Data Storytelling
- **Version Control:** Git | GitHub | Merge Conflict Resolution | Code Review Workflows
- **Certifications:** Career Essentials in Data Science - Microsoft and LinkedIn (May 2025)

## DATA SCIENCE PROJECTS

**JP Morgan Chase Natural Gas Trading Optimization (Forage)**
Independent Data Science Project

GitHub
Completed: Aug 2025

- Analyzed seasonal and historical price trends in natural gas markets to identify profit-maximizing purchase and sale strategies
- Applied cubic spline interpolation to estimate daily prices from monthly observations and developed an ARIMA model to forecast prices one year forward
- Formulated and optimized a constrained objective function to maximize trading profit subject to storage, injection, and withdrawal limitations

**Equitable Energy Capstone**
Data Engineering Lead

Lehigh University
Completed: Dec 2023

- Designed and implemented an ETL pipeline to collect and structure Energy Justice Community data for analysis of utility pricing disparities
- Developed Python web crawlers using BeautifulSoup and Requests to aggregate historical Pennsylvania electricity rate data into a relational SQL database
- Mentored teammates on machine learning best practices and contributed to technical documentation

## PROFESSIONAL EXPERIENCE

**Giant Food Stores**
In-Store Shopper

Conshohocken, PA
Apr 2025 - Oct 2025

- Monitored biweekly shopper metrics through Power BI dashboards to identify process pain-points
- Streamlined order staging by creating standardized label sheets, reducing grocery unloading times
- Assisted customers with lifting and locating groceries in order to provide a positive shopping experience

**Lehigh University**
Head Teaching Assistant

Bethlehem, PA
Aug 2023 - Dec 2023

- Guided students on completing CamJam EduKit robotics lab assignments through weekly Python code demonstrations
- Coordinated grading responsibilities among my section's teaching assistants using Google Sheets to optimize feedback response times on students' assignments
- Identified students at risk of failing through Lehigh's learning management and provided one-on-one mentoring where needed

**Lehigh University**
Teaching Assistant

Bethlehem, PA
Aug 2021 - May 2023

- Evaluated students' assignments using Lehigh's learning management system and Jupyter Notebook to assess their understanding of programming concepts
- Mentored students on Python best-practices and useful documentation resources to improve academic outcomes
- Aided students in debugging code and clarifying assignment requirements during weekly office hours