

Matthew Dolin

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EDUCATION

Master of Science in Data Science Drexel University Concentration: Applied Artificial Intelligence/Machine Learning	Jun 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
<ul style="list-style-type: none">Analyzed seasonal and historical price trends in natural gas markets to identify profit-maximizing purchase and sale strategiesApplied cubic spline interpolation to estimate daily prices from monthly observations and developed an ARIMA model to forecast prices one year forwardFormulated 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
<ul style="list-style-type: none">Designed and implemented an ETL pipeline to collect and structure Energy Justice Community data for analysis of utility pricing disparitiesDeveloped Python web crawlers using BeautifulSoup and Requests to aggregate historical Pennsylvania electricity rate data into a relational SQL databaseMentored 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
<ul style="list-style-type: none">Monitored biweekly shopper metrics through Power BI dashboards to identify process pain-pointsStreamlined order staging by creating standardized label sheets, reducing grocery unloading timesAssisted 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
<ul style="list-style-type: none">Guided students on completing CamJam EduKit robotics lab assignments through weekly Python code demonstrationsCoordinated grading responsibilities among my section's teaching assistants using Google Sheets to optimize feedback response times on students' assignmentsIdentified 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
<ul style="list-style-type: none">Evaluated students' assignments using Lehigh's learning management system and Jupyter Notebook to assess their understanding of programming conceptsMentored students on Python best-practices and useful documentation resources to improve academic outcomesAided students in debugging code and clarifying assignment requirements during weekly office hours	