

# JONATHAN KWIATKOWSKI

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A highly skilled data scientist with over three years of experience in developing advanced machine learning algorithms, leveraging statistical and optimization methods to enhance complex business models. Proficient in modern analytics tools and technologies such as Python, R, and SQL. Passionate about solving business problems using Data Science & Machine Learning. Systematically & creatively use skillset to add tangible value to the team, the business, and the end-user. History of explaining complex results to diverse groups of stakeholders with varying technical backgrounds. Constantly learning with a curious mindset and always looking to improve.

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## EDUCATION

**Master of Science Candidate in Data Science** | University of Minnesota | Minneapolis, MN | Expected Graduation 2026

**Master of Science in Mathematics** | Emporia State University | Emporia, KS | GPA: 3.8

**Bachelor of Arts in Mathematics** | Concordia College | Moorhead, MN | GPA: 3.5

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## PROFESSIONAL EXPERIENCE

**Brightmont Academy - Plymouth, MN**

02/2019 – Current

### ***Mathematics Instructor***

- Applied machine learning principles (linear regression, clustering) to assess student performance trends and curriculum effectiveness.
- Raised 85% of students one or more full grade levels on post-assessments.
- Trained and mentored 12+ educators in analytical teaching methods, improving instructional efficiency with an 80% retention rate.
- Developed interactive dashboards using Excel to track student performance trends, leading to a 20% improvement in personalized learning outcomes.
- Conducted A/B testing on different teaching strategies, leveraging statistical analysis to optimize student engagement and retention.

**Dealer Tire - Cleveland, OH**

03/2023 – 01/2025

### ***Data Science Analyst II (Sales)***

- Worked with sales leaders to develop a new commission/goaling structure for the field. This new structure ensured that previously conflicting roles within the field worked together increasing performance 12% over the first six months.
- Developed daily, monthly, quarterly, and annual performance reports using SQL and R to ensure various levels of sales leadership had the necessary tools to manage their regions. Clear and concise reports led to increased engagement and understanding.
- Built a principal component analysis (PCA) model in Python to identify key factors contributing to field performance. Utilizing these results, developed a selection list which narrowed the scope and urged sales leaders to choose optimal locations to visit thereby increasing sales 30%.
- Co-managed a Python script used to streamline various promotional closing processes for over 20 carlines. Worked with program management to implement tool boosting efficiency for both teams.
- Automated existing reporting using R to save more than 20 analyst hours each week.
- Educated multiple teams across the organization in various analytics techniques.
- Used a clustering model to segment over 10,000 dealers in appropriate buckets helping sales leadership better prioritize time and resources. Refreshed quarterly and prepared a detailed report outlining changes in segmentation, overages in allocated team-member hours per month, and other important metrics.

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## SKILLS AND TOOLS

**Programming:** SQL, Python (Base, Pandas, Numpy, Matplotlib, Scikit-Learn, PyTorch), R

**Tools:** Excel, PowerPoint, Power BI, Tableau, Github, AWS, Snowflake

**Math:** Linear Algebra, Statistics (Hypothesis Testing, AB Testing, Central Limit Theorem, Distributions), Calculus

**Machine Learning:** Linear Regression, Logistic Regression, Decision Trees, Random Forest, KNN, k-means, PCA, Neural Networks, Natural Language Processing (NLP), GenAI, Large Language Models (LLMs)

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## PROJECTS

**Tweet Sentiment Predictor (NLP):** Trained and optimized four machine learning models to predict the sentiment of a tweet: Logistic Regression Classifier, Stochastic Gradient Descent, Multinomial Naive Bayes, and Light-Gradient Boosting. Hyperparameters were tuned to achieve a test accuracy of nearly 80%.

**Climate Change and World Hunger Analysis:** Created an interactive dashboard that analyzes world temperature and food supply over time. The dashboard contains a world food availability map, a country nutrition choropleth, and a food availability vs. temperature graph.

**Assessing Campaign Performance:** Applied a Chi-Square Test for Independence (a Hypothesis Test) to assess the performance of two types of mailers that were sent out to promote a new service. Without running this Hypothesis Test, the client may have concluded that they should always look to go with higher cost mailers - and from what we've seen in this test, that may not be a great decision. It would result in them spending more, but not necessarily gaining any extra revenue as a result. Going forward, gathering more data and running more A/B tests like this may provide the client more insight.

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## COURSES AND CERTIFICATIONS

Data Visualization and Analytics Bootcamp | University of Minnesota

Theory of Statistics I | University of Minnesota

Theory of Statistics II | University of Minnesota

Applied Multivariate Analysis | University of Minnesota

Introduction to Machine Learning | University of Minnesota

Advanced Machine Learning | University of Minnesota