JONATHAN KWIATKOWSKI

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Strategic and results-driven Data Scientist with 3+ years of experience building and deploying machine learning solutions that drive revenue growth, operational efficiencies, and data-driven decision-making. History of leveraging predictive modeling, statistical analysis, and data visualization to transform complex datasets into actionable business intelligence. Proficient in Python, R, SQL, and cloud platforms like AWS and Snowflake. Adept at bridging the gap between technical complexity and executive decision-making by delivering clear, impactful insights. Passionate about harnessing data science and AI to solve real-world challenges, drive innovation, and maximize organizational success.

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

PROFESSIONAL EXPERIENCE

Brightmont Academy - Plymouth, MN   02/2019 – Current
Mathematics Instructor
- Applied machine learning principles (linear regression, clustering) to analyze student performance trends and optimize curriculum effectiveness.
- Elevated student achievement, driving an 85% increase in post-assessment scores through tailored, data-driven instructional strategies.
- Spearheaded educator training initiatives, empowering 12+ instructors with cutting-edge analytical teaching techniques and improving retention rates by 80%.
- Developed dynamic Excel-based dashboards, unlocking real-time insights into student performance and improved personalized learning outcomes by 20%.
- Conducted rigorous A/B testing to evaluate instructional methodologies, optimizing student engagement and retention.

Dealer Tire - Cleveland, OH   03/2023 – 01/2025
Data Science Analyst II (Sales)
- Designed and implemented a data-driven commission and goal-setting framework that boosted performance by 12% in 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, pinpointing key sales performance drivers and increasing field efficiency by 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 sales analytics using R, reducing manual reporting by 20+ hours weekly and dramatically enhancing operational productivity.
- Educated multiple teams across the organization in various analytics techniques.
- Engineered a clustering model that segmented over 10,000 dealerships, optimizing resource allocation and maximizing market impact.
- Led cross-functional analytics training sessions, fostering a data-driven culture and expanding organizational analytical capabilities.

SKILLS AND TOOLS

Programming: SQL, Python (Base, Pandas, Numpy, Matplotlib, Scikit-Learn, PyTorch), R
Tools: Excel, PowerPoint, Power BI (Power Query, DAX), Tableau, GitHub, AWS, Snowflake, Jupyter Notebook
Mathematical and Statistical Modeling: Linear Algebra, Calculus, Hypothesis Testing, AB Testing, Regression Analysis, Time Series Forecasting, Multivariate Analysis, Central Limit Theorem, Distributions
Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, KNN, k-means, PCA, Neural Networks, Natural Language Processing (NLP), Generative AI, Large Language Models (LLMs)

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.

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