

RITVIK VASIKARLA

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PROFESSIONAL SUMMARY

Motivated recent graduate with a strong foundation in statistical modeling, data analysis, and programming (Python, SQL, R). Eager to apply analytical skills and knowledge of machine learning to contribute to data-driven decision-making. Completed projects in predictive analytics and data visualization, demonstrating ability to derive insights from complex datasets and support strategic goals.

EDUCATION

University of Wisconsin-Madison

Master of Science in Business Analytics | GPA: 3.94/4.00

Achievements: 1st Place in Molson Coors Analytics Challenge, 2nd Place in MSBA Analytics Competition

May 2026

Madison, WI

Texas A&M University

Bachelor of Science in Statistics and Economics; Minor in Mathematics | GPA: 3.60/4.00

May 2025

College Station, TX

TECHNICAL SKILLS

- **Programming Languages:** Python (Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch), SQL (PostgreSQL, MySQL), R
- **Machine Learning & Analytics:** Supervised Learning (Regression, Classification), Unsupervised Learning (Clustering), NLP, Time Series, A/B Testing, Hypothesis Testing, Causal Inference, Exploratory Data Analysis, Metrics Design, Product Analysis
- **Cloud & Infrastructure:** AWS (S3, Glue, Redshift, SageMaker, Lambda, EC2), Docker, dbt, Spark, ETL, Data Warehouse
- **Data Visualization:** Tableau, Power BI, Matplotlib, Seaborn, Streamlit
- **Tools:** Git, GitHub, Jupyter, Flask, Excel

EXPERIENCE

Graduate Data Analytics Club

Technical & Analytics Lead

Aug 2025 - May 2026

Madison, WI

- Engineered computerized job scraping pipeline analyzing 1,000+ LinkedIn postings; extracted 20+ key skills using NLP and association rules, revealing Python in 83% of roles, guiding curriculum focus for 50+ grad students
- Led 3 hands-on technical workshops covering Git/GitHub workflows, machine learning algorithms, and portfolio development for 50+ graduate students, increasing club technical engagement by 60%

Texas A&M University, Department of Economics

Research Assistant

Jan 2024 - May 2024

College Station, TX

- Applied two-stage least squares instrumental variable regression to 52-country dataset across 32 time periods, achieving F-stat: 12.50 to 25.94, p less than 0.001 quantifying causal effects of historical slave trade on modern economic outcomes
- Developed double lasso regression pipeline for automated variable selection and endogeneity correction, replicating published econometric research with 4 geographical instruments to isolate causal relationships in observational data

TECHNICAL PROJECTS

NLP Product Optimization | Molson Coors Competition (1st)

- Analyzed product descriptions using NLP (sentiment analysis, TF-IDF) optimizing for AI search engines; proposed recommendations projected to increase sales index 24.3% representing multi-million dollar revenue potential
- Discovered fact-dense content achieves 92% AI preference vs 45% for traditional copy; delivered 8-week implementation roadmap

Data Analytics Chatbot | AI-Powered Assistant | <https://data-analytics-chatbot-rv.streamlit.app/>

- Built and deployed AI-powered educational chatbot using Streamlit and Google Gemini API enabling natural language queries on data analytics concepts; implemented multi-format file processing (PDF, DOCX, CSV, Excel) using pdfplumber and pandas for automatic content extraction and analysis
- Developed user-friendly interface supporting 1,500 daily requests through efficient API integration with 95% user satisfaction; created interactive learning tool helping students understand complex statistical concepts through contextual Q&A, reducing average learning time by 40% based on user feedback metrics

End-to-End ML Pipeline on AWS | Corporate Bankruptcy Prediction

- Designed production data pipeline on AWS processing 1M+ financial records with mechanized ingestion (S3), transformation (Glue ETL), warehousing (Redshift), and model deployment (SageMaker); optimized query efficiency 20% and reduced manual preparation 90%
- Deployed Random Forest and XGBoost models achieving 95% accuracy and 0.898 ROC-AUC score on 6,819 companies to predict corporate bankruptcy risk; generated a 10-company investment portfolio with quantified risk assessments