Rucheek Rajeev Kashyap

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Professional Summary

MS in Business Analytics graduate with a background in Computer Science and a focus on AI-driven business solutions. Skilled in designing decision intelligence systems, integrating LLMs, and structuring analytical platforms for enterprise use. Experienced in stakeholder mapping, KPI design, prompt engineering, and dashboard development. Known for strategic thinking, system-level reasoning, and the ability to bridge analytics with real-world decision-making.

Education

- **The University of Texas at Dallas** May 2025
  Master of Science in Business Analytics and Artificial Intelligence *GPA: 3.6*
  Graduate Certificate in Applied Machine Learning and Business Decision Analysis
- **Visvesvaraya Technological University, Bangalore** May 2023
  Bachelor of Computer Science and Engineering *GPA: 3.6*

Experience

- **Data Science Intern, Corizo** *Sep 2022 – Nov 2022*
  - Identified financial indicators to improve predictive analytics, aiming to improve the precision of forecasting and avoid missing profitable opportunities. Provided accurate internal support, ensured well-organized documentation.
  - Conducted exploratory data analysis (EDA) to explore patterns in historical stock data and performed feature engineering to select high-impact indicators. Optimized predictive models using time series analysis and regression techniques.
  - Increased forecasting accuracy by 18%, enabling data-driven financial strategies and better investment decisions.

Mentored Industry Project

- **Data Intelligence Analyst, VenShiMer Inc.** *Jan 2025 – Apr 2025*
  - Designed and architected an Autonomous Decision Intelligence (ADI) Platform simulating enterprise-scale AI integration. Led multi-phase system design: discovery, stakeholder modeling, KPI dashboards, GPT-based decision triggers.
  - Conducted IEEE/peer-reviewed literature analysis across decision systems, LLMs, and system thinking. Solved 9 complex business case-lets using system archetypes (e.g., Escalation, Shifting the Burden, Drifting Goals).
  - Developed prompt-token optimization strategies, causal loop diagrams, risk maps, KPI dashboarding and change adoption plans.

Academic Projects

- **BERT Models for Multi-label Classification for an Imbalanced Dataset** *Oct 2024 – Nov 2024*
  - Fine-tuned three BERT models for multi-label classification on an imbalanced dataset, improving accuracy and precision
  - Improved model reliability by 15% through analysis of confusion matrices, boosting recall for minority labels
- **Home Credit Default Risk Analysis** *Feb 2024 – Apr 2024*
  - Developed predictive models to identify high-risk loans, achieving 87% accuracy, which greatly reduced loan default rates
  - Streamlined the loan application process and reduced potential losses by leveraging machine learning models, enhancing overall efficiency.
- **Predictive Analysis and Strategic Insights for Meat Substitutes, Conagra** *Feb 2024 – May 2024*
  - Leveraged data analytics to predict market trends and consumer preferences, enhancing forecasting accuracy by 30%
  - Optimized targeted marketing strategies, increasing effectiveness by 20% and boosting visibility in a competitive market
- **Adult Census Income** *Sep 2023 – Nov 2023*
  - Analyzed and developed an income forecasting model, achieving 90.11% accuracy through advanced processing
  - Significantly enhanced reliability and decision-making by reducing prediction errors by 25% compared to baseline models

Technical Skills / Toolkits

- **Languages & Tools**: Python, SQL, R, C++, Power BI, Excel, Tableau, Git, Analytical Solver, AWS, Latex
- **AI & NLP**: GPT-4/OpenAI APIs, Prompt Engineering, Transformers, BERT, Sentiment Analysis, Topic Modeling
- **Libraries**: PyTorch, Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib, Spark
- **Decision & System Design**: KPI Modeling, Architecture Mapping, Change Management, Causal Loop Diagrams
- **Databases & ETL**: MySQL, MongoDB, BigQuery, Data Cleaning, Data Validation Pipelines
- **Methodologies**: Agile, Business Communication, Stakeholder Mapping
- **Certifications**: Using Databases with Python, Using Python to Access Web Data

Volunteer Work

- **STEM Education**: Over 200 hours teaching STEM and leading rural health initiatives.