YUVRAJ MALHOTRA

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PROFILE

Results Oriented Data Scientist with 4 + years' experience across various industries, including Technology, Supply Chain, Retail, Healthcare, and Finance, currently pursuing **MS in Business Analytics**, seeking a Data scientist or engineer role.

- **Languages/Tools:** Python (Pandas, NumPy, Matplotlib, TensorFlow, Keras, PyTorch), R, SQL, Snowflake, BigQuery, NoSQL, MongoDB, PostgreSQL, SAS, MATLAB, Tableau, Power BI, SAP, Salesforce, Agile/Scrum, Jira, Hadoop, Spark, Airflow, dbt, Looker, Redshift, AWS S3/Lambda, GCP, Databricks, CI/CD, Git, ETL
- **Certifications:** NVIDIA: Generative AI LLMs, INFORMS: Analytics Professional, AWS Certified Cloud Practitioner, Azure Fundamentals (AZ900), Google Analytics, Advanced SQL, Tableau Specialist, Microsoft AI Fundamentals

EDUCATION

Purdue University, Mitch. Daniel School of Management — **West Lafayette, IN**
Master of Science in Business Analytics and Information Management, GPA: 3.55/4.0 — *May 2025*

Purdue University, Krannert School of Management — **West Lafayette, IN**
Bachelor of Science in Supply Chain, Information and Analytics & Finance. — *May 2021*

PROFESSIONAL EXPERIENCE

AgReliant Genetics — **West Lafayette, IN**
Data Scientist– Supply Chain Network Optimization — *January 2025-Present*

- Developed and deployed a two-stage stochastic optimization model to evaluate product-level logistics scenarios, reducing intercompany transfers by 30% and improving fulfillment efficiency.
- Designed and executed Monte Carlo simulations and scenario analysis to evaluate delivery strategies under fluctuating demand, eliminating 300+ redundant truck trips and significantly improving delivery speed KPIs.
- Implemented time-series forecasting models (ARIMA) to predict customer demand, improving forecast accuracy and lowering inventory holding costs by $150K annually while reducing stockouts by 14%.

Parker Hannifin — **New Britain, CT**
Pricing Data Analyst — *June 2023-May 2024*

- Designed a predictive pricing recommendation model, optimizing the customer quoting process and contributing to $1.2 Million increase in sales and saving 120+ hours monthly.
- Built a data-driven web application to standardize the monthly reporting process, eliminating dependency on Excel files and improving reporting efficiency across 106 divisions.
- Engineered a robust ETL pipeline integrated with a SQL database, ensuring scalable and efficient data ingestion, data transformation, and data warehouse management.
- Applied A/B testing methodologies to refine marketing and product features, using statistical analysis to optimize KPIs, resulting in a 15% increase in conversion rates and a 10% boost in user engagement.

Strategic Pricing Leadership Development Associate — *June 2021-May 2023*

- Automated SQL-driven pricing for 2,000+ SKUs leveraging live metal market data (Aluminum, Brass, Copper) and product weight specification, generating $500K in additional annual sales.
- Created Tableau dashboards to provide real time KPIs visualization, enabling quick decision-making for stakeholders.
- Conducted segmented market analysis to guide pricing strategies for OEM and distribution channels.

LEADERSHIP POSITIONS

Purdue University — **West Lafayette, IN**
Graduate Teaching Assistant (MGMT 474 – Predictive Analytics) — *August 2024-May 2025*

- Instructed 80+ students on advanced statistical and machine learning models, including linear regression, logistic regression, decision trees, and deep learning architectures (CNNs, RNNs, Transformers, Autoencoder) using Python.

Boilermaker Consulting Group — **West Lafayette, IN**
Healthcare Data Consultant at Eli Lilly — *January 2021-May 2021*

- Applied supervised learning (random forests, gradient boosting) and unsupervised techniques (k-means clustering) to identify and predict risk factors in patient treatment protocols, reducing error rates by 15%.

ACADEMIC PROJECTS

- **Bankruptcy Prediction:** Developed a predictive model for bankruptcy using 64 financial indicators, an ensemble of XGBoost and Neural Networks, with 91% accuracy, to significantly improve financial risk assessment.
- **Airbnb Super-host Prediction:** Built an Airbnb 'Super-host' prediction model with logistic regression and Support Vector Machines (84% accuracy), enabling better property investment decisions.
- **Azure Pipeline:** Deployed a scalable ETL pipeline on Microsoft Azure, leveraging cloud computing to integrate Azure Data Factory, SQL Database, and Blob Storage for automated and efficient data processing.