

AKANKSHA SINGH

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PROFILE

Results oriented data scientist with 4+ years of experience in analytical decision making in retail, sports, technology, and pharmaceutical industries, currently seeking an environment to utilize my skills to facilitate business-oriented outcomes.

SKILLS

- **Languages:** Python (Pandas, Matplotlib, NumPy, Scikit-learn, NLTK, Beautiful Soup, Selenium), SQL, R
- **Tools and Technology:** Machine Learning, Deep Learning (Keras, Tensorflow, LSTM), Git, Airflow, GCP – BigQuery, Excel, @Risk, Minitab, Snowflake, SAS EM, Hadoop, Pyspark, Tableau, PowerBI, Jupyter
- **Certifications:** AWS Certified Cloud Practitioner, Azure Fundamentals (AZ-900), Machine Learning Scientist with Python, Data Analyst with Python, Operations Research with SAS Optimization, SQL Advanced

EDUCATION

Purdue University, Daniels School of Business <i>M.S. in Business Analytics and Information Management (STEM) (CGPA 3.72/4)</i>	West Lafayette, IN August 2024
SRM Institute of Science and Technology <i>Bachelor of Technology in Electronics and Communication Engineering (CGPA 3.8/4)</i>	Chennai, India May 2019

PROFESSIONAL EXPERIENCE

Kearney <i>Data Science Intern (Capstone Course)</i>	West Lafayette, IN Jan 2024 – Present
<ul style="list-style-type: none">• Revamped the existing raw materials forecasting framework for a large welding equipment manufacturer, using a blend of neural networks and time series models, achieving 30% improvement in MAPE across 13,000+ materials	
Purdue University <i>Data Scientist - Krenicki Research Center</i>	Nov 2023 - Present
<ul style="list-style-type: none">• Implemented an ensemble of classification models (XGBoost, Random Forest and LightGBM) to predict the likelihood of purchase of brand or generic medicines and explored the application of agent-based modeling to analyze the influences exerted by key stakeholders in the pharmaceutical space for Eli Lilly• Collaborated with Accenture to harness SAP Signavio and Gen AI for process mining and utilizing Large Language Models to expedite issue summarization and recommendations generation for 800+ processes	
Teaching Assistant - Daniels School of Business	Jan 2024 - Present
<ul style="list-style-type: none">• Assisted in the delivery and evaluation of Python course at the Daniels business school for 50+ students	
Mu Sigma Inc. <i>Project Manager</i>	Bangalore, India Oct 2022 – July 2023
<ul style="list-style-type: none">• Led a team of 7 decision scientists, supporting the advanced analytics, business intelligence and digital analytics workstreams of a sports retailer, generating \$500,000 annual revenue for Mu Sigma• Designed a budget forecasting tool for effective and accurate budget allocation by using market mixed modeling and regression techniques across 10+ media channels, leading to an 8% increase in ROAS	
Decision Scientist	Oct 2019 – Sept 2022
<ul style="list-style-type: none">• Facilitated targeted marketing across customer personas for a retailer by developing an ML-based clustering solution and predicting the likelihood of repurchase with 86% accuracy, using classification techniques such as XG Boost, resulting in an increase in conversion rate by ~14%• Streamlined the Data Quality Framework across 2 geos by developing an ML driven anomaly detection approach to perform checks against the timeliness, consistency, and accuracy of data on 30+ data sources• Set up daily automated email alerts using SMTP for proactive notifications of data quality issues and collaborated with the data engineering team, resulting in a 60% reduction in the resolution turnaround time• Re-engineered campaign performance measurement process using A/B testing and multi-touch attribution techniques for a home improvement retailer, that improved performance measurement efficiency by 30%	
ACADEMIC PROJECTS	
<ul style="list-style-type: none">• Cryptocurrency Portfolio Optimization- Built a Neural Network (LSTM) based model to predict the closing rate of 10+ cryptos with an automated framework to buy/sell stocks and optimize portfolio to maximize returns• Improving Craigslist Classification System- Developed an image and text classification methodology using Neural Network and classic ML classification models to reduce the misclassification rate by 31%• NCAA predictive analytics - Predicted consumer's activity type (Primary purchase, Multiple purchase etc.) for Women's basketball tickets using an ensemble of classification techniques with 98.49% accuracy (Kaggle top 10)• Data Driven Strategy for Airbnb Ecosystem Optimization- Predicted 'Superhost' status and subsequent occupancy rates for Airbnb hosts in Chicago. Analyzed market competitiveness using the Herfindahl Index and calculated potential ROI for investors in Chicago	