

Alan David

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Education

Georgia State University

Master of Science in Data Science

August 2024 – December 2025

Atlanta, GA

Experience

Graduate Research Assistant

Georgia State University

August 2024 – Present

Atlanta, GA

- Built a **machine learning** model to predict fraudulent transactions, increasing Truist's **fraud detection** capabilities.
- Spearheaded data engineering and feature processing tasks, proactively collaborating with cross-functional teams to revise model accuracy and performance by **15%**
- Led and mentored a team of 20+ students, facilitating collaboration on fraud detection models, boosting their understanding of machine learning algorithms and teamwork dynamics.

Data Analyst

Caterpillar - (Quess Corp)

March 2022 – January 2024

Chennai, TN

- Leveraged **Snowflake** and **SQL** to manage and process large datasets.
- Developed and revamped data connections with **Tableau** to create detailed and visually compelling reports.
- Proactively utilized **Python** to analyze large datasets, translating complex results into actionable recommendations for stakeholders, significantly improving communication and project outcomes
- Communicated critical data-driven insights to executive leadership, fostering improved decision-making processes and cross-departmental collaboration, resulting in a **25%** increase in efficiency and **15%** productivity gains

Data Analyst Intern

Groupe PSA (Stellantis)

February 2021 – April 2021

Chennai, TN

- Increased SQL query response time by **46%** through **non-clustered indexing**
- Took initiative in developing Power BI dashboards, streamlining sales and after-sales data visualization, enabling stakeholders to make swift, informed decisions, reducing decision-making time by **27%**

Projects

Fraud Detection | *Python, Machine Learning, Gen AI, AWS*

August 2024 – Present

- Built and deployed a machine learning model to detect fraudulent transactions within Truist's mortgage product portfolio.
- Employed techniques such as Random Forest, XGBoost, and Logistic Regression to enhance fraud detection accuracy by **15%**
- Integrated model into production, enhancing fraud detection response time by **30%** using **AWS** services for cloud deployment
- Demonstrated strong communication and teamwork by coordinating closely with Risk and Compliance teams, ensuring project alignment with regulatory frameworks, while driving innovative fraud detection solutions

Predicting Vehicle Insurance | *Python, Machine Learning, Git*

November 2021 – February 2022

- Created a predictive model to determine likelihood of existing health insurance customers signing up for vehicle insurance
- Applied techniques such as Logistic Regression, Random Forest, and XGBoost to identify key customer attributes influencing vehicle insurance purchases
- Leveraged Python, scikit-learn, and pandas for data processing, model development, and evaluation.

Technical Skills

Languages: Python, SQL , R

Data Analysis: Tableau, Pandas, Numpy, Matplotlib, Seaborn

Statistics: Hypothesis Testing, Statistical Tests

Machine Learning: Regression , Classification , Ensemble Methods , Clustering

Deep Learning:Neural Networks, CNNs, RNNs

Database:MySQL, Snowflake, MS SQL Server