

# Rahul Stanly Keecheril

## Graduate Data Scientist| AI/ML Engineer

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### Professional Summary

Graduate Data Scientist with an MSc in Data Science & AI and strong experience in machine learning, forecasting, and decision intelligence. Skilled in Python, SQL, and data visualization with expertise in building ETL pipelines, dashboards, and predictive models to support business operations. Hands-on experience across fraud detection, anomaly detection, and time-series forecasting. Strong communicator with leadership experience, capable of translating technical analysis into actionable business insights.

### Education

MSc Data Science & Artificial Intelligence

University of Liverpool | 2023 – July 2025 (Graduated)

- Dissertation: Detection of Freezing of Gait in Parkinson's Disease using MLPs and LSTMs
- Modules: Machine Learning, Applied AI, Data Visualization, Mathematics & Statistics for AI (Optimization, Probability, Inference, Decision Theory)

BTech Mechanical Engineering

APJ Abdul Kalam Technological University, India | 2018 – 2022

### Projects

Credit Card Fraud Detection (Python + ML + Imbalanced Data)

- Built supervised learning models (Logistic Regression, Random Forest, XGBoost) to detect fraudulent transactions.
- Applied feature engineering, SMOTE resampling, and cross-validation to address data imbalance.
- Demonstrated relevance to risk management and anomaly detection in financial data.

Stock Market Forecasting with LSTMs (Time-Series + Forecasting)

- Developed LSTM-based forecasting models for stock price prediction using historical financial data.
- Conducted EDA, scaling, and hyperparameter tuning, achieving RMSE of 1.66 (Train) and 3.31 (Test).
- Showcased ability to apply time-series forecasting and optimization techniques to financial datasets.

Manufacturing Operations Dashboard (SQL + Power BI + Anomaly Detection)

- Built a real-time analytics dashboard integrating multi-source data pipelines in SQL and Power BI.

- Applied anomaly detection to monitor production KPIs and detect irregularities.
- Delivered executive-ready data visualization and decision-support dashboards for operational insights.

#### Generative AI Text-to-Dashboard Tool (Python + APIs + Automation)

- Created a tool that converted natural language queries into automated dashboards using GPT models, Python, and Plotly.
- Automated ETL workflows, API integrations, and reporting, demonstrating AI-powered workflow automation.

## Certifications

IBM Data Science Professional Certificate – Coursera

R Programming Fundamentals – edX

## Leadership & Extracurriculars

President & Treasurer – Data Science & AI Society

University of Liverpool | 2023 – 2025

- Organised workshops, hackathons, and industry speaker sessions.
- Mentored peers on Python, SQL, ML workflows, and data visualization.
- Strengthened communication and stakeholder engagement skills.

## Technical Skills

Programming: Python, SQL, R (basic), JavaScript (learning)

Machine Learning: Classification, Regression, Random Forests, XGBoost, LSTMs, Anomaly Detection, Fraud Detection

Data Engineering: ETL pipelines, workflow automation, API integration

Analytics & BI: Power BI, Plotly, Streamlit, Matplotlib, dashboard development

MLOps & Deployment: Docker, Git, Hugging Face deployment, reproducibility workflows

Statistics & Optimization: Probability, hypothesis testing, inference, decision theory

Core Skills: Forecasting, decision intelligence, risk analytics, stakeholder communication

## Additional Experience

Crew Member (Part-Time) – Wendy's, Liverpool, UK | 2025 – Present

- Delivered results in a high-paced environment requiring teamwork, adaptability, and efficiency.
- Built strong interpersonal and communication skills, transferable to client-facing data projects.