

Arpit Singh

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EDUCATION

University of Surrey, Guildford

Guildford, UK

MSc Business Analytics – Distinction

Sept 2025

- Key Modules: Operational Analytics (83%), Financial Modelling (80%), Statistics & Econometrics (77%), Data Mining (77%), Machine Learning, AI & Visualisations (75%)

EXPERIENCE

HSBC UK

London, UK

Universal Banker – Wealth & Personal Banking

Mar 2026 – Present

- Investigate and resolve 2–3 fraud and financial crime cases daily, applying AML verification procedures, risk assessment frameworks, and regulatory controls within an FCA-regulated environment.
- Analyse customer account activity, transaction patterns, and supporting documentation to identify fraud indicators and escalate high-risk cases in line with internal financial crime and compliance policies.
- Enrolled in HSBC University's Data & AI Academy, developing applied knowledge in data analytics and AI to enhance business insight generation and analytical problem-solving.

ReviveBattery B.V

London, UK

Research Analyst Intern

Nov 2025 – Feb 2026

- Built a fixed-effects regression model on Eurostat data forecasting battery recycling volumes to 2027 across Norway and Netherlands, projecting Norway at ~80K tonnes and Netherlands declining to ~35K tonnes, identifying Netherlands as the stronger revival market
- Conducted end-to-end market analysis across 10 regulatory and commercial variables including EPR frameworks, fleet age structure and logistics feasibility, scoring Netherlands 8.6/10 vs Norway 6.4/10 and recommending Netherlands as primary market entry for 2025-26
- Delivered a market-entry strategy report covering a TAM of €155-180M annually across both markets, with a phased investment roadmap that directly informed senior leadership's decision on European market entry

PROJECTS

Retail Sales Analytics & Forecasting | *SQL, Python, Power BI, Prophet, DAX*

- Executed end-to-end SQL diagnostics on 9,800+ retail transactions worth \$2.26M across 4 regional markets, applying window functions and CTEs to identify a 32% sales collapse in the South region and low-AOV structural weaknesses in the Central market
- Built a three-page interactive Power BI dashboard with DAX measures, time intelligence modelling, and KPI tracking – enabling regional performance comparison and data-driven business recommendations
- Developed a Python Prophet forecasting model reducing weekly MAPE from ~250% to ~11% through time-series aggregation, improving forecast reliability and automating demand planning

Impact of Statistical Visualisations on Decision-Making | *R, MATLAB, SQL, Excel, iMotions*

- Designed and executed a controlled behavioural analytics study across 113 participants using eye-tracking, pupil dilation analysis, and physiological sensors to measure how visualisation design affects decision accuracy and cognitive load
- Applied Wilcoxon testing and linear mixed-effects modelling in R across multimodal datasets combining response accuracy, fixation heatmaps, and biometric signals
- Found that redesigned violin plots improved interpretation accuracy from 61% to 70% ($p=0.014$) and reduced response times by 14 seconds compared with traditional histograms

Road Traffic Accident Severity Prediction | *SAS, Machine Learning, NLP*

- Conducted end-to-end predictive analytics on 2,480 UK road traffic accident records across 35 variables using SAS for data preparation, visualisation, and modelling
- Developed a Gradient Boosting model achieving 83.47% accuracy, 0.9172 AUC, and 0.6688 KS statistic, identifying key accident severity drivers including location and speed limit
- Applied SAS text analytics and topic modelling on 598 social media posts to generate insights on accident impact and public sentiment

TECHNICAL SKILLS

Languages & Tools: SQL (MySQL), Python (Pandas, NumPy, Prophet), R, SAS, STATA, MATLAB

BI & Visualisation: Power BI, Power Query, DAX, Excel (Advanced), Data Visualisation, Dashboarding

Analytics: Statistical Modelling, Forecasting, Machine Learning, Regression Analysis, ETL, Behavioural Analytics, Exploratory Data Analysis (EDA)

CERTIFICATIONS

Databricks Generative AI Fundamentals · HSBC Data Analytics Foundation