JAY DUGAD

Data Scientist | Risk Analytics, Transaction Data | Python, SQL, ML | MSc Data Science

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PROFESSIONAL SUMMARY

Data Scientist with 3+ years analysing large, complex datasets to uncover risk patterns, measure business impact and drive decisions. Experienced with transaction and financial data, risk modelling, anomaly detection, KPI monitoring and A/B testing, and in turning findings into clear recommendations for product, engineering and business teams. MSc Data Science (Distinction), Kingston University London.

KEY SKILLS

Analytics & Risk: Risk Analytics · Transaction & Financial Data Analysis · Anomaly & Pattern Detection · KPI Design & Monitoring · Root-Cause Analysis of Metric Movements · Loss & Impact Measurement

Statistics & Experimentation: A/B Testing · Hypothesis Testing · Statistical Modelling · Classification · Forecasting

Technical: Python (Pandas, NumPy, Scikit-learn, XGBoost) · SQL · PySpark · Databricks

NLP & GenAI: Hugging Face Transformers · LLM Fine-tuning · Text Classification

Communication: Power BI · Tableau · Stakeholder Reporting · Cross-Functional Collaboration

PROFESSIONAL EXPERIENCE

Data Scientist | Fast Data Science, London / *Dec 2024 – Present*

- Analysed large structured and unstructured datasets (100,000+ data points monthly) to identify trends and patterns, delivering models and insights that improved performance by 30% across 10+ domains
- Designed 10+ controlled experiments to test hypotheses and measure impact, communicating results and trade-offs to cross-functional stakeholders
- Built dashboards and automated reports to monitor key metrics and explain their movements to non-technical audiences
- Automated data pipelines on structured and unstructured data, reducing manual analysis effort by 30%

Data Analyst | Get Credible, London / *Feb 2024 – Jan 2025*

- Designed A/B testing pipelines and classification models on large financial datasets, improving prediction accuracy by ~20%
- Built SQL and Python pipelines combining 5+ data sources to analyse user funnels and transaction trends, boosting campaign ROI by 30%
- Partnered with product and marketing teams to turn statistical insights into actionable strategies

Software & Network Support Manager | Sun Micronet, India / *Apr 2021 – Nov 2022*

- Applied ML-based anomaly detection across 100+ data sources, reducing downtime by 30%
- Automated monitoring workflows, improving SLA compliance and operational efficiency by 40%

PROJECTS

Credit Risk Assessment | Python · GBM · Feature Engineering · SHAP · Statistical Modelling
Built an end-to-end risk model with engineered features, SHAP explainability and ROC-AUC evaluation, presented through Power BI for business decision-making.

Clinical Trial Risk Tool – Gates Foundation | Python · NLP · Risk Classification · Published
Built an NLP pipeline to extract and classify risk from large unstructured document sets. It is deployed globally and published in Gates Open Research (2023).

LLM Fine-tuning & Deployment | Hugging Face · Docker · CI/CD · Cloud VM
Fine-tuned and containerised an LLM for API-based inference with GitHub Actions CI/CD. It has 135+ downloads and early clinical adoption.

EDUCATION & CERTIFICATIONS

MSc Data Science (Distinction) Kingston University London | 2024–2025

BCA (Grade A) B.Y.K College, India | 2020–2023

Certifications: Data Scientist for British Airways · ML with Scikit-Learn · Data Engineering with Databricks · Data Analytics for Quantium · GenAI Simulation for BCG · Member of BCS (British Computer Society) – The Chartered Institute for IT

Published: Gates Open Research (2023) · BMC Psychiatry / Harmony (2024) · AI Ethics in Healthcare (2026)