

Rohit Pant

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Accomplished **Senior Data Scientist with 9+ years of experience** designing and deploying scalable machine learning and AI solutions. Delivered \$1M+ in business impact through fraud detection, risk modeling, and operational efficiency improvements. Skilled in full-stack ML development, model governance, and mentoring cross-functional teams.

Technical Expertise

- **Machine Learning & AI:** XGBoost, LightGBM, Random Forest, Logistic Regression, Time-Series Forecasting, Anomaly Detection (Fraud).
- **NLP & Generative AI:** BERT, Retrieval-Augmented Generation (RAG), Transformer Fine-tuning.
- **MLOps & Deployment:** MLflow, Docker, Kubernetes, CI/CD, AWS SageMaker, Drift Monitoring.
- **Business & Risk Analytics:** AML Optimization, PD/LGD/EAD Modeling, IFRS 9, Basel II/III, Credit Scoring, Stress Testing.
- **Tools & Languages:** Python, SQL, PySpark, Databricks, AWS, Power BI, Git, Jira.
- **Leadership:** Cross-Functional Collaboration, Agile Project Management, Team Mentorship.

Professional Experience

Senior Data Scientist (AVP) | NAB, India

Jan 2023 - Present

- **Decreased false alerts and boosted SAR conversion** by 25% (\$300K saved) through an end-to-end AML optimization using Databricks (PySpark and MLflow). Recalibrated alert thresholds and automated model retraining via CI/CD pipelines.
- **Accelerated fraud investigations** by building a RAG pipeline on LangChain with Pinecone, fine-tuning GPT model to answer case-specific queries.
- Engineered a batch wash-trade detection system using XGBoost on AWS (S3 & SageMaker Batch Transform), achieving 95% pattern recognition accuracy and **preventing illicit-trade losses**.
- Mentored 5 junior data scientists in MLOps & NLP best practices, increasing team productivity by 20%.

Senior Data Science Consultant | EXL, India

Mar 2021 - Jan 2023

- **Built IFRS 9-compliant credit risk models** (PD/LGD/EAD) using logistic regression and XGBoost, reducing defaults by 11% and saving \$600K annually in loan losses.
- Designed an end-to-end MLOps architecture on AWS SageMaker and MLflow, **eliminating 30% of rollback incidents** through automated drift monitoring, model registry, and CI/CD integration.
- Improved classification accuracy by 12% and **reduced complaint review times by 25%** by implementing a RAG-powered insight extraction system using LangChain and OpenAI API.
- **Reduced time-to-market by 25%** through close collaboration with Risk, IT, and Compliance teams integrating analytics via REST APIs and automated batch scoring jobs.
- Led a team of analysts in building scalable risk scorecard monitoring and validation pipelines, improving transparency and audit-readiness of credit risk models.

Data Analyst | Wipro, India

Nov 2015 - Sep 2020

- **Developed a high-accuracy churn prediction model** using XGBoost (85% accuracy), contributing to improved customer retention strategies and supporting revenue forecasting.
- **Automated ETL workflows** in Python and SQL, reducing manual data prep effort by 20% (\$150K savings/year).
- **Built Executive dashboards** streamlining reporting and reducing turnaround time by half.

Education: B. Tech, Electronics and Communication Eng. | Uttarakhand Technical University (2011-2015)

Certifications:

AWS Certified Cloud Practitioner; CQIB '23 (FINSIA); OpenAI Prompt Engineering; Agile Practitioner (2024)
