

AKSHAT BINDAL

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SUMMARY

Engineering Analyst with 3+ years of experience building large-scale data pipelines and analytical infrastructure for credit and fraud risk at American Express. Experienced managing cross-functional projects from scope through delivery, partnering with engineering, data science, and product teams to translate financial data into risk-mitigation insights. Additional hands-on experience building AI agents, MCP servers, agent skills, and evaluation frameworks with LLMs/Generative AI. Comfortable owning ambiguous, high-urgency problems end-to-end in fast-changing environments.

EXPERIENCE

Senior Analyst, Credit and Fraud Risk | American Express — Gurugram Aug 2026 – Present

- Designed and implemented an enterprise-scale data archival and lifecycle management framework for Analytical Data Layers (ADLs) using EDaaS (Enterprise Data Archival as a Service), enabling automated retention, reliable recovery, regulatory compliance, and long-term governance of analytical data assets.
- Developed a BigQuery and Python based validation framework for a GenAI-powered sensitive data classification solution, improving tagging precision and recall while enabling high-confidence identification of sensitive datasets for enterprise governance.

Analyst, Credit and Fraud Risk | American Express — Gurugram Dec 2024 – Jul 2026

- Led the development of the Analytical Data Layers (ADLs), the foundational data platform for credit and fraud risk modeling, by orchestrating automated pipelines on Google Cloud Composer, reducing execution time by 95% and eliminating 4 days of manual effort every month.
- Involved in a massive migration project of migrating on-premises Hive and PySpark workloads to Google Cloud using BigQuery and Dataproc, translating and optimizing legacy PySpark code into native BigQuery SQL to reduce processing time by 80%.
- Built 5+ internal tools and automation scripts to streamline workflows, eliminate manual and ad hoc processes, and improve operational efficiency.
- Managed project scope, goals, and deliverables while partnering directly with data scientists, senior product managers, and executive leadership to translate business objectives into production-grade analytics layers, enabling faster ad-hoc querying and automated processes.

Associate Consultant | Oracle Financial Services Software — Bengaluru Aug 2023 – Dec 2024

- Designed and developed new features for Oracle FLEXCUBE, a flagship financial services platform, supporting high-volume banking and transaction-processing workflows using Java and PL/SQL.
- Developed finely tuned PL/SQL procedures and triggers for transaction-heavy modules, ensuring low latency and high accuracy in financial database frameworks to mitigate operational and transactional risk.
- Collaborated with functional and technical teams to deliver 10+ production features and customizations, ensuring system performance, data integrity, and seamless integration across applications.

Intern | Kawasaki Robotics — Gurugram Jan 2022 – Jul 2022

- Developed an IoT framework for industrial robots enabling remote monitoring and operation via mobile devices.
- Analyzed telemetry data to identify patterns and optimize arc-welding robot behavior, reducing vibration anomalies by 60%.

SKILLS & TOOLS

Data Analysis: Statistical Analysis, Fraud & Risk Analytics, Trend Identification, Large-Scale Data Querying, Data Modeling

Programming & ML: Python, SQL, PL/SQL, Machine Learning, Generative AI / LLMs, AI Agents, Langchain, LangGraph, Google ADK

Cloud & Data Platforms: Google Cloud (BigQuery, Dataflow, Dataproc/Apache Spark, Composer/Airflow, Pub/Sub)

Project & Delivery: Cross-functional Project Management, Process Automation & Optimization, Stakeholder Communication

EDUCATION

Bachelor of Technology — National Institute of Technology Kurukshetra | CGPA: 9.38 | Jul 2019 – Jun 2023