

SUMMARY

Data Science graduate with a strong foundation in large-scale machine learning, agentic workflow development, and scientific modeling. Experienced in building AI pipelines, optimization algorithms, and LLM-integrated systems. Skilled at developing predictive models, statistical simulators, and production-grade analytics for payment, fraud detection, and compliance domains. Seeking to contribute to Amazon Payments' mission through high-impact, scalable AI research and deployment.

EDUCATION

- University at Buffalo, SUNY** | Buffalo, NY  
**Master of Science in Data Science** | *Jun 2025*  
Relevant Coursework: Machine Learning, Distributed Computing, Database Management Systems, Deep Learning Bayesian Networks, Scalable Pipelines
- KIIT University** | Bhubaneswar, India  
**Bachelor of Technology in Computer Science** | *Aug 2021*  
Undergraduate Projects: Credit Card Fraud Detection, Object Recognition using Neural Networks

TECHNICAL SKILLS

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|---------------------------------------|--|
| • <b>Programming:</b>                 | Python, Java, SQL, C++, R, Hive, REST APIs   |
| • <b>ML/AI Frameworks:</b>            | Scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers, XGBoost, Autoencoders, RNNs, LLMs  |
| • <b>Optimization &amp; Modeling:</b> | Time Series Forecasting, Anomaly Detection, Reinforcement Learning, Statistical Simulation, SHAP |
| • <b>Tools &amp; Platforms:</b>       | Docker, Flask, Streamlit, GitHub Actions, CI/CD, Tableau, Power BI                               |
| • <b>Data Infrastructure:</b>         | Oracle SQL, PostgreSQL, BigQuery, ServiceNow, PySpark  |

CORE COMPETENCIES

Agentic AI Workflows | Large-Scale Machine Learning | Deep Learning Models | Optimization Algorithms | Generative AI (LLMs) | Scientific Modeling | Risk Simulation | Real-Time Prediction Systems | Time Series Forecasting | Statistical Inference | Reinforcement Learning | SQL & Data Warehousing | Production-Grade ML Deployment | Distributed Computing | Anomaly Detection |Cross-Functional Collaboration

PROFESSIONAL EXPERIENCE

**Application Development Analyst**  
**ACCENTURE - Pune, India** | *Jul 2021 - May 2022*

- Automated 100K+ ServiceNow API-based logs, improving SLA compliance by 40% across transaction pipelines.
- Designed 3+ backend analytics dashboards monitoring 10K+ records/month for real-time SLA visibility and availability.
- Conducted root-cause simulations on 3K+ recurring incidents using SQL + Python, cutting repeat failure patterns by 22%.
- Partnered with 6+ global teams across 3 time zones to align platform risk flows, improving data observability by 30%.

PROJECTS

**Stock Volatility Risk Simulation** | *Python, Docker, SHAP, Streamlit* | **Jan 2024 – May 2024**

- Designed agentic volatility workflows simulating synthetic trade risks across 100K+ pricing scenarios.
- Benchmarked real-time vs batch inference pipelines, improving model response latency by 38%.
- Strengthened containment strategies, reducing simulated systemic risk by 40%.

**Revenue Forecasting & Regulatory Insights** | *XGBoost, Streamlit, Tableau* | **Feb 2025 – Present**

- Modeled 145K+ payment records to forecast revenue across business flows with 92% accuracy.
- Delivered 4+ regulatory dashboards with dynamic filters and alerts, improving decision latency by 20%.
- Enabled stakeholders to detect anomalies 30% faster with interpretable ML outputs.

**Spelling Error Clustering for Transaction Cleaning** | *BERT, Autoencoder, LLMs* | **Jan 2024 – May 2024**

- Clustered 50K+ transaction log anomalies using unsupervised BERT embeddings to improve data consistency.
- Embedded feedback-based audit loop using Streamlit, reducing manual correction effort by 35%.
- Improved downstream data pipeline quality by over 30% through pre-cleaning validation.

**Toxic Comment Moderation Pipeline (LLM Workflow)** | *Hugging Face, Transformers, Flask* | **Jan 2025 – May 2025**

- Built moderation engine with switchable BERT layers, classifying 5 classes with 88% F1 score.
- Developed real-time web app UI reducing moderation cycle time by 30%.
- Integrated policy violation flags, increasing content coverage across 3 moderation tiers by 20%.

**Crime Trend Monitoring & Risk Alerts** | *PySpark, MLLib, Pandas* | **Aug 2024 – Dec 2024**

- Processed 1M+ regional event records to identify geographic and behavioral clusters.
- Created 5+ heatmaps and dashboards to visualize high-risk areas, reducing risk planning delays by 25%.
- Built anomaly detection logic that flagged 12% more real-time incident deviations compared to static rules.

CERTIFICATION & LEADERSHIP

- Supervised Machine Learning** – Stanford/DeepLearning.AI (*In Progress*)
- Career Skills in Data Analytics** – LinkedIn Learning
- Meta Kaggle Hackathon** – Identifying predictive trading signal patterns (*Jun 2025 – Present*)
- Digital Strategy Lead** – MUN Leadership Team | **Volunteer Analyst** – Animal Rescue NGO