Kashish Gupta

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Education

University of Alberta — Edmonton, AB
Bachelor of Science in Computing Science (Honors) — *Expected June 2028*

- **Relevant Coursework:** Algorithms, Computer Architecture, Machine Learning, Software Quality, Software Engineering
- **Awards:** International Admission Scholarship, Regional Excellence Scholarship, Joan Ethier Women in Science Award
- **Hackathons:** GovTech (1st), Women in AI (2nd), CIC Innovates (Honorable Mention); placed in 3 of 10+ entered

Technical Skills

Languages: Python, C/C++, Java, JavaScript, SQL, Assembly
Infrastructure & DevOps: Linux, Docker, Kubernetes, Git, CI/CD (GitHub Actions, Jenkins), Health Checks, Dashboards
Deep Learning & AI: PyTorch, TensorFlow, CNNs, Transfer Learning, Model Optimization, Computer Vision, NLP, LLM APIs
Cloud & Systems: AWS (EC2, S3, Lambda, Bedrock), RESTful APIs, Oracle Integration Cloud, Maximo, MDM, Data Lake

Experience

IT Solutions Architect Intern — May 2026 – Present
ATCO — *Edmonton, AB*

- Build and maintain the integration infrastructure connecting 10+ enterprise platforms (Maximo, MDM, Data Lake, Oracle Integration Cloud), mapping and reconciling 1,000+ attributes across systems at production scale
- Replaced manual reconciliation with a parsing pipeline and AI layer that automates system mapping and data qualification, and built monitoring dashboards that track integration health and data quality across the organization
- Design cloud architecture through GCP to support these integrations

Machine Learning Fellow — March 2026 – May 2026
RBC Borealis – Let's Solve It

- Built an AI-powered mobile app for dermatological triage to help reduce patient wait times, using computer vision (ResNet-50, EfficientNet, MobileNetV3) and LLM APIs
- Compared architectures on both accuracy and deployment performance, improving accuracy by 48% to 92% overall, then built the end-to-end pipeline through mobile deployment

Undergraduate Research Assistant (Mastercard-Funded Project) — May 2025 – August 2025
University of Alberta — *Edmonton, AB*

- Trained and evaluated fraud detection models (Random Forest, XGBoost, Neural Networks) on 10M+ transaction records, comparing 20+ configurations to tune accuracy and generalization and reaching 94% accuracy
- Engineered features to identify key fraud indicators and uncover hidden fraud nodes, including ones that appear benign

Machine Learning Fellow — May 2025 – June 2025
AI4GOOD Lab @ Amii (Alberta Machine Intelligence Institute) — *Edmonton, AB*

- Developed and deployed a full-stack platform (Flask, PostgreSQL, React) serving 300+ neighborhoods across Edmonton at 99.5% uptime, and automated data validation in Python to cut manual effort by 70%

Software Engineering Intern — Jan. 2025 – Apr. 2025
University of Alberta Innovation Fund (UAIF) — *Edmonton, AB*

- Built automated CI/CD pipelines for a shared codebase, cutting deployment time by 40%
- Wrote test suites (200+ tests, 85% coverage) to validate each release
- Conducted due diligence on early-stage startups, analyzing their business and how it fit into the broader market

Projects

EvacuMate – Emergency Response System | *Python, Flask, React, AWS Bedrock, Docker, Pytest*

- Integrated AWS Bedrock (Titan Text LLM) for real-time risk assessment across 1,000+ scenarios, built a RESTful API with 95% test coverage, and deployed via Docker with automated CI/CD

ResiSense – Neighborhood Recommendation Engine | *Python, PostgreSQL, Scikit-learn, Pandas*

- Built a recommendation system using weighted clustering (K-Means) and regression models across 300+ neighborhoods, achieving 89% user satisfaction through an explainable, transparent ranking design

Leadership

President — 1,000+ Members
Undergraduate Artificial Intelligence Society (UAIS) — *Edmonton, AB*

- Manage 10 project team leads and 75 project members across research and industry AI projects in a 1,000+ member club
- Guide project leads through planning and implementation, providing technical solutions to unblock teams
- Secured a partnership with AMII (Alberta Machine Intelligence Institute), one of the three largest AI institutes in Canada
- Lead 15+ technical workshops (∼100 attendees), host presentations, and connect students with peers, projects, and the AI community

VP Academic
Ada's Team — *Edmonton, AB*

- Schedule office hours and tutoring services for student academic support
- Gather student concerns and advocate to the department for academic improvements
- Run mentorship for 110+ students, matching them to mentors and industry professionals by their requirements and providing resources