KRISHNA PAUDEL

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EDUCATION

University of British Columbia | Bachelor's in Statistical Economics & Data Science   Vancouver, BC | Sep 2021 - Apr 2026

- **4.05/4.33 GPA**, Dean's List Recipient (x3), High Distinction
- **Awards:** UBC Centennial Scholars' Award, UBC Arts Undergraduate Research Award (AURA)
- **Relevant Courses:** Quantitative Finance | Advanced Statistics | Financial Accounting | Financial Modeling in Python | Applied Econometrics | Computational Macroeconomics | AI & Machine Learning | Database Systems | Data Structures & Algorithms

WORK EXPERIENCE

Swiss Re | Data Science Actuary Intern | Actuarial Operations & Solutions Department   Toronto, ON | Jan 2026 - Current

- Designed and deployed an **Agentic AI troubleshooting tool** for an actuarial valuation model that executes exploratory code at various ETL pipeline checkpoints to locate root-cause errors, cutting model-related JIRA tickets by **45%+ within two weeks**
- Designed a **DFS-based algorithm** to track variable data lineage across multi-model data pipelines, generating **graphical visualizations** and **LLM-generated explanations** to end-users navigating a new actuarial modelling platform

City of Delta | Finance & Technology Intern | Finance Department   Delta, BC | Jan 2025 - Dec 2025

- Identified manual processing bottlenecks and designed **50+ automated workflows** in **SQL** for recurring financial analysis and reporting tasks, reducing department-wide manual processing time by **3+ hours** *daily*
- Developed a locally hosted **LLaMA-3** model with RAG infrastructure to translate user requests into system-specific SQL queries, trained on database structure and historical query logs; increasing operational efficiency for non-technical municipal staff
- Created an **anomaly detection model** using supervised machine learning to flag city properties with potential water leaks based on historical consumption data, **reducing manual review workload by over 70%**
- Built **Excel-based financial models** to forecast city-wide revenue trends and inform municipal budgeting decisions, creating data visualizations and statistical summaries used in **4+ official publications** and municipal budgeting reports
- Designed a **binary classification model** using Convolutional Neural Networks **(CNNs)** to differentiate signed/unsigned and stamped/unstamped documents, training with labeled images in TensorFlow, and achieving 98%+ accuracy across both models
- Built an automated form-processing tool to extract handwritten data from **300+ monthly** form submissions using OCR, and auto-validate entries against city records, **cutting data entry and processing time by over 90%**

University of British Columbia | Research Assistant | Political Science Department   Vancouver, BC | Jun 2025 - Sep 2025

- Built a **custom web-scraping workflow** using BeautifulSoup and **LLM-assisted parsing** to extract and structure congressional biographic and historical records into a unified dataset on U.S. demographics and voting history
- Conducted **regression modeling and causal inference analysis** to examine the impact of religious diversity on political polarization in the US Congress, producing data visualizations and statistical summaries for an academic publication

PROJECTS & COMPETITIONS

Bank of Canada: Governor's Challenge | National Champion | UBC | GitHub   Jun 2025 - Feb 2026

- Led a team of 5 students to **national finals**; recommended monetary policy decisions to the Bank of Canada's senior economists
- Developed a Bayesian VARX model with Monte Carlo simulations to **forecast inflation** under diverse macroeconomic scenarios

Portfolio Analytics & Forecasting Platform | Quantitative Finance Project | Dashboard   Oct 2025 - Jan 2026

- Built a cloud-based ML platform on Azure to ingest stock data from external APIs, forecast price movements using **gradient-boosting** models, and power a **React.js dashboard** with portfolio analytics and performance metrics

Accounting-4-Sustainability International Case Competition | Finalist | UBC | Presentation   Sep 2025 - Current

- Conducted financial and sustainability analysis of industry operations for the A4SICC competition, **assessing cost–benefit outcomes, capital impacts, and risk exposure** to pitch actionable, ESG-focused process changes to industry professionals

SKILLS

- **Tech:** Python, R, SQL, Java, Stata, Julia, Azure, AWS, GitHub, Computer Vision (OCR, CNN), RAG, MongoDB, TensorFlow
- **Finance:** Excel (Advanced), Power BI, Bloomberg Terminal, VR&A, Financial Forecasting, Risk Modeling, Stochastic Simulations
- **Certifications: Google** Advanced Data Analytics | **CFA** Investment Foundations | **IBM** Data Architecture | **UBC** Data & Models