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KRISHNA PAUDEL

ECONOMICS & DATA SCIENCE STUDENT

www.krishnapaudel.ca

EDUCATION

SEP 2021 - MAY 2026

Bachelor's Degree in Economics, University of British Columbia, Vancouver, BC

- 4.0/4.33 GPA, Dean's List Recipient (x3)
- Specialization in Econometrics and Data Science
- UBC Centennial Scholars' Award Recipient

SEP 2023 - MAY 2025

Certificate in Quantitative Data Analysis, University of British Columbia, Vancouver, BC

SKILLS

- **Languages & Tools:** Python, R, SQL, STATA, Excel, Power BI, Jupyter Notebook, Git, Microsoft Azure, Google Cloud Platform
- **Academic Research:** Quantitative data analysis, regression modeling, statistical inference, hypothesis testing, survey design
- **Statistics & Data Science:** Time series analysis, panel data methods, predictive modeling, data cleaning & preparation
- **Frameworks & Libraries:** Scikit-learn, PyTorch, TensorFlow, Random Forests, RNNs, Transformers (HuggingFace), Matplotlib
- **AI & LLMs:** API integration, OCR, model fine-tuning, prompt engineering, GPT, Llama 3, FastAPI, local LLM deployment

PROJECTS

FEB 2025 - PRESENT

Independent Software Projects for the City of Delta – Delta, BC

- Developed a LLaMA 3-powered ML platform that converts natural language into precise SQL queries by training on historical query logs and custom metadata, significantly increasing operational efficiency and query accessibility for non-technical municipal staff.
- Created a locally executable, fully automated form processing tool that utilizes OCR technology to extract handwritten data from over 500 monthly submissions and cross-references entries against city databases using a fuzzy matching search engine, cutting processing time by over 90% and saving hundreds of dollars in monthly labor costs.
- Built a hybrid ML model for time-series anomaly detection that integrates supervised and unsupervised learning methods to flag potential water leaks from monthly meter consumption data across city properties, enabling early intervention and reducing manual review workload by over 70%.

Personal Machine Learning Projects

- Developed an ML-based short-term return forecasting model using recurrent neural networks (RNN) to predict next-day stock return probabilities by integrating technical indicators, macroeconomic signals, and real-time behavioral data, including live Google Trends API, processed using natural language sentiment analysis models.

EMPLOYMENT HISTORY

JAN 2025 - PRESENT

Finance Intern, Finance Department, City of Delta - Delta, BC

- Supported financial reporting and operational planning by conducting accounts receivable reconciliations, investigating discrepancies in transaction-level data, validating payment records, and preparing ad hoc reports for senior staff.
- Analyzed past utility and property tax payments to help forecast future revenues, recommend property tax and utility rate adjustments, and support city budgeting decisions related to service costs, seasonal trends, and long-term financial planning.
- Gained hands-on experience with the city's SQL database architecture to automate financial data extraction and replace manual lookup processes, significantly improving the speed and accuracy of revenue analysis, reconciliation tasks, and internal financial reporting projects.

JUN 2025 - PRESENT

Research Assistant, Department of Political Science, University of British Columbia - Vancouver, BC

- Scraped, compiled, and cleaned large-scale datasets from congressional archives, public statements, and demographic sources to examine the relationship between U.S. congressmembers' religious affiliations and their policy outcomes.
- Performed statistical inferencing analysis using R and STATA, running panel regression models and conducting hypothesis testing to identify long-term patterns in legislative voting behavior to produce insights for an academic publication on religion and politics.

MAY 2024 - AUG 2024

LLM Development Intern, JKP - Mississauga, ON

- Assisted in developing an LLM-based AI chatbot for a non-profit organization, using a Retrieval-Augmented Generation (RAG) architecture combined with Model Context Protocol (MCP) to enable accurate, context-aware responses.
- Applied natural language processing (NLP) techniques to preprocess and tokenize large volumes of text, audio transcripts, and video content, and assisted in fine-tuning the model by preparing instruction-aligned datasets to improve relevance and response quality.

JUN 2023 - APR 2024

Site Operations Lead, Calian / Immigration, Refugees and Citizenship Canada (IRCC) - Richmond, BC

- Led daily operations at an immigration center, overseeing administrative responsibilities, maintaining organized client records, and coordinating with government personnel and security teams.
- Supported asylum seekers and refugees in transitioning to Canadian society by assisting with job searches, financial resources, language training, and access to key government programs.

MAR 2021 - JUL 2023

Sales Associate, Home Depot - Surrey, BC

- Delivered exceptional customer service by identifying customer needs, recommending products, processing cash and card transactions, maintaining inventory displays, and resolving customer issues to ensure smooth daily workflow.

SEP 2020 - OCT 2021

Tutor, Math4Me - Surrey, BC

- Tutored high school students in math, chemistry, and physics, assessing their strengths and weaknesses and creating targeted lesson plans and instructional strategies to address specific learning needs and improve academic performance.

CERTIFICATIONS

APR 2025 – IN PROGRESS

Microsoft | AI & ML Engineering Professional Certificate

- Developed proficiency in designing and deploying scalable AI solutions and MLOps workflows on Azure, including model management, performance tuning, and monitoring.

NOV 2024 - APR 2025

Google | Advanced Data Analytics Professional Certificate

- Mastered Python-based exploratory data analysis, statistical modeling, regression, and machine learning to derive actionable insights and communicate results effectively.

JAN 2025 – IN PROGRESS

IBM | Data Architecture Professional Certificate

- Built expertise in SQL-based data modeling and enterprise system design, including relational database architecture, data warehousing, and ETL pipelines.

LANGUAGES

Hindi



Nepali



Panjabi



French

