

Nitant Suhagiya

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Education

Toronto Metropolitan University

BSc. Computer Science with Minor in Mathematics

Dean's List 2025

Toronto, ON

Sept 2024 – May 2027

University of Regina

Diploma in Computer Science, GPA 7.4/9

Regina, SK

May 2019 – June 2021

Experience

Data Scientist

Sep 2026 – Present

Toronto Metropolitan University

Toronto, ON

- Formulated standardized data annotation protocols and automated pipelines for multi-planar ultrasound sequences, building high-quality ground-truth datasets to train and benchmark multi-view segmentation models.
- Engineered spatio-temporal deep learning segmentation models to track dynamic needle trajectories across 3 orthogonal ultrasound planes over time, advancing real-time precision for prostate cancer interventions.

Data Engineer Intern

May 2026 – Aug 2026

Canadian Nuclear Safety Commission (CNSC)

Ottawa, ON

- Engineered a Python automation pipeline that translates and validates data inputs for reactor simulation software, reducing manual data preparation time by 70% and eliminating transcription errors across critical safety workflows.
- Processed and mapped 10,000+ structured records per run, enabling consistent, audit-ready data handoffs in a classified, federally regulated nuclear safety environment.

Senior Research Assistant

Feb 2026 – Present

CMIC Lab, TMU

Toronto, ON

Research Assistant

Oct 2025 – Feb 2026

- Collaborating with a multidisciplinary research team to study the social dynamics of computer-mediated communication (CMC).
- Analyzing behavioural and communication data using statistical tools to identify patterns related to deception detection and social prediction.

Sales & Marketing Manager

Sep 2024 – Apr 2026

Greenwood Leather

Mississauga, ON

- Originated a 40% increase in sales by using creative social media marketing techniques, which helped the business become more visible in the marketplace.
- Maintained and strengthened ties with more than 13 B2B clients throughout Canada, resulting in steady revenue growth, good cash flow, and the creation of a distinct product demand based on local geography.

Inside Sales Representative

Jun 2024 – Aug 2024

TruGreen

Mississauga, ON

Sales Representative

Apr 2024 – Jun 2024

- Worked on developing persuasive sales pitches according to the changing season by addressing customer questions and objections, resulting in tailored solutions to customer needs, which led to consistently meeting weekly sales targets.
- Rewarded with the best salesperson award for June, generating over 120% of the weekly sales goal.

Sales Manager

May 2023 – Feb 2024

Greenwood Leather

Mississauga, ON

- Performed in-depth market research, which enabled the company to expand into the USA with success, gaining a sizeable market share, and strategically positioned the business.
- Worked in tandem with shipping and operational partners to optimize packaging, improving customer happiness and cutting expenses by 6.2%, all of which helped to streamline logistics.

Founder

Jan 2023 – May 2023

Boron Diamonds

Regina, SK

- Dived into my Start-up of an online drop shipping store of imitation jewelry serving over 400 orders with an average order value of \$23 with healthy reviews.
- Worked closely with affiliate marketers and social media influencers to drive sales, and increased sales by targeting potential customers through analytical performance marketing.

Assistant Store Manager

Jan 2020 – Jan 2023

Bombay Spices

Regina, SK

- Implemented strategic marketing techniques that generated a \$2 million increase in net sales, while managing warehouse operations, inventory, and cross-training new associates.
- Improved team efficiency by 15% through optimized stocking strategies and maintained strict safety protocols while operating heavy equipment like forklifts and cherry pickers.

Tutor

Sep 2019 – Jul 2022

University of Regina

Regina, SK

- Designed tailored lesson plans, custom practice assessments, and targeted reading comprehension strategies to improve student knowledge, boost self-confidence, and reduce test anxiety.
- Evaluated individual learning needs and academic progress while supporting classroom instruction through one-on-one tutoring, homework preparation, and regular performance feedback.

Research

UM-GCN: Multiscale Label-Attention Graph Network for Chest X-Ray Classification | (*Submitted, SPIE Medical Imaging 2027*)

- Designed UM-GCN, a multiscale label-attention graph network that builds image-specific disease graphs from attention overlap, replacing fixed co-occurrence statistics with entropy-modulated message passing.
- Achieved macro-AUROC of 0.8318 and macro-AP of 0.3226 on ChestX-ray14, outperforming a tuned EfficientNet-B4 baseline through controlled ablations, with statistically significant AUROC gains on 5 disease classes (Atelectasis, Infiltration, Pneumonia, Edema, Emphysema) confirmed via external validation on CheXpert.

Projects

Pagenova | *Chrome AI assistant Extension (React, TypeScript, Vite)*

- Built a Chrome extension that grounds streaming AI chat in open tabs, uploaded documents, and images, supporting local Ollama and cloud providers (OpenAI, Anthropic, Gemini, OpenAI-compatible).
- Designed a budget-aware RAG pipeline (chunk → embed → retrieve) with on-device Transformers.js embeddings, IndexedDB vector storage, and automatic full-context vs. retrieval mode based on model window size.
- Implemented a React UI over a typed service-worker protocol with abortable streaming, session-only API keys, SSRF-safe image fetching, and a 120+ test Vitest suite covering providers, retrieval, and streaming edge cases.

F1 Winner Predictor | *Python, scikit-learn, FastF1 API*

- Preprocessed and analyzed free practice session data from the FastF1 API (driver speed, lap times, conditions) to build a structured dataset for predictive modelling.
- Trained an XGBoost model to forecast driver speeds and race performance for current-season events using last year's race data as benchmarks, improving prediction accuracy through feature engineering.

Certificates

TCPS 2: CORE-2022

Oct 2025

Government of Canada

C & C++

Nov 2018

Red & White Skill Education Official

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, C/C++, SQL, PHP, HTML/CSS

Frameworks: React, Node.js, Express, Tailwind, FastAPI, Scikit-Learn, XGBoost, TensorFlow, Keras, PyTorch, Pandas, NumPy, Matplotlib, ONNX, Transformer, MCP, RAG, JAX, NLP, Computer Vision, LLM

Developer Tools: Git, GitHub, VS Code, Linux/UNIX, AWS, Power BI, Hugging Face, Flask, Docker, Jupyter Notebook, LangChain, LangGraph