

Swapnil Dubey

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EDUCATION

The University of British Columbia

BSc in Computer Science and Statistics (Dean's Honour List), Science Co-op, GPA: 3.7/4.0

Sep 2022 – May 2027

Vancouver, BC

- **Selected Coursework:** Applied Machine Learning; Computer Vision; Introduction to Data Science; Statistical Inference; Regression; Algorithms & Data Structures; Probability.

SKILLS

Languages & Tools: Python; R; SQL; Java; Git; HTML/CSS

Data & ML: Data cleaning & wrangling; EDA; logistic regression; KNN; decision trees; regularization; cross-validation; model evaluation (precision, recall, F1)

Analytics & BI: Power BI; Power Query; Excel (pivots); basic SQL reporting; KPI design; dashboarding

Platforms: ServiceNow; SharePoint; Power Apps; Power Automate; Jira; Confluence

Communication: Technical writing; stakeholder presentations; tutoring; documentation (SOPs, process maps)

WORK EXPERIENCE

Enterprise Solutions Software Engineer Co-op (Incoming)

British Columbia Investment Management Corporation (BCI)

Jan 2026 – Apr 2026

Vancouver, BC

- Offer accepted for a 4-month software engineering co-op supporting internal enterprise applications and data-driven tooling.

Cyber Risk Analyst Co-op

Teck Resources Ltd. (Digital Risk & Compliance)

Sep 2025 – Present

Vancouver, BC

- Triage and analyze daily cyber risk requests in ServiceNow; maintain an audit-ready SharePoint intake tracker and risk register used for leadership reporting.
- Build and maintain dashboards and metrics (request volume, SLA adherence, time-to-close, risk trends) to support data-driven decisions by the Cybersecurity leadership team.
- Developed a Power Apps + Power Automate workflow to mirror ServiceNow intake fields to SharePoint, eliminating 10+ manual entries/week and improving data quality.
- Collaborate with cross-functional teams (IT, vendors, Procurement) to interpret data, close evidence gaps, and track remediation progress.

Business Analyst Co-op

Teck Resources Ltd. (Digital Risk Practice & Resilience)

May 2025 – Aug 2025

Vancouver, BC

- Built Power BI dashboards and Excel/Power Query pipelines for monthly and quarterly cybersecurity KPIs (training, phishing, compliance) across 10K+ employees.
- Joined datasets from LMS, phishing tools, rosters, and finance to produce accurate KPI roll-ups, MoM variance analyses, and executive-ready visuals.
- Co-planned phishing simulations; applied NIST Phish Scale analysis and segmentation insights, contributing to a ~20% improvement in phishing report rates.

TECHNICAL PROJECTS

Prescripto — AI Healthcare Transcription | Python, Gemini 2.0 Flash, Whisper API

Mar 2025

- Built an [AI tool](#) to auto-transcribe and summarize doctor-patient conversations, reducing manual note-taking for clinicians.
- Engineered a speech-to-summary pipeline (Whisper + Gemini Flash, 50+ languages) using structured prompting, achieving low-latency SOAP note generation.
- Implemented regex and semantic checks against ICD-11-style codes to reduce critical hallucinations in medical summaries.

Heart Disease Risk Prediction | R, Logistic Regression, LASSO

Jul 2024 – Aug 2024

- Developed a [clinical decision-support model](#) to predict heart disease presence from 15+ patient biomarkers.
- Achieved 79.8% cross-validated accuracy and identified 6 key predictors via LASSO regularization, prioritizing reduced false negatives for early detection.

Internet Usage & Mental Health | R, Decision Trees

May 2024 – Jul 2024

- Worked with Prof. Dennis Foung to analyze 20K+ CIUS survey records, modeling links between digital habits and mental health for ages 15–44.
- Performed preprocessing (filtering, feature engineering, outlier handling) and tuned decision tree models, reaching ~78% test accuracy.

Water Potability Classification | R, KNN, Supervised ML

Oct 2022 – Dec 2022

- Built a [KNN classifier](#) on 3K+ samples with 10 physicochemical features to predict safe vs. unsafe water.
- Reached 70.6% cross-validated accuracy (15% above baseline), prioritizing precision to minimize false “safe” classifications.