

Swapnil Dubey

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EDUCATION

The University of British Columbia

Vancouver, BC, Canada

BSc in Computer Science and Statistics

Sept 2022 - May 2026

Courses: Basic DSA, Statistical Modelling and Inference for Data Science, Probability, Software Construction, Regression

ABOUT ME

Technical Skills: C/C++, Python, R, SQL, Java, HTML/CSS, Excel VBA, LaTeX, Scheme

Data Skills: Python (Numpy, Pandas, File handling, data cleaning, Jupyter), R (Data reading (tidyverse), cleaning & wrangling, visualisation (ggplot), KNN (evaluation & tuning), regression, clustering, statistical inference)

Interests: Machine Learning, Data Science, Data Analysis, Big Data, Cryptocurrencies and Blockchain, Design

WORK EXPERIENCE

Code in Place Section Leader

Apr 2024 - Present

Stanford University

Remote

- Led a team of 10-15 international students through a comprehensive curriculum covering Python programming fundamentals, including data structures, algorithms, and object-oriented design principles.
- Developed and delivered engaging lesson plans incorporating real-world examples and hands-on coding exercises to enhance student comprehension and retention.
- Collaborated with fellow instructors to continuously improve course materials and adapt teaching strategies based on student feedback and performance metrics.

External Director

Aug 2023 - Present

UBC Exchange and International Students Club

Vancouver, BC

- Managed external relationships, securing funding for club initiatives.
- Strengthened sponsor partnerships, surpassing expectations.
- Collaborated with the treasurer for sponsorship activities.
- Bridged gaps between the club and external stakeholders.

Jumpstart Orientation Leader

Aug 2023 - Sep 2023

University of British Columbia

Vancouver, Canada

- Guided new students through their transition to university life as a Jumpstart Orientation Leader, showcasing strong leadership and support skills.
- Managed logistical aspects, collaborating with leaders to ensure a seamless, engaging experience for participants at the start of the Jump Start program, balancing both in-person and virtual components.

COMPETITIONS AND PROJECTS

Water Potability Classification | R Programming, Supervised Machine Learning, Classification Oct '22 - Dec '22

- Developed a K-nearest neighbors model in R for water potability assessment.
- Analyzed a dataset of 3000+ synthetic water samples, assessing the model's accuracy, achieving 70.6% accuracy in testing on unknown data, evaluating its reliability and precision.
- Represented UBC at Google's Solutions Challenge 2023.

Pet Pal: Pet Care Tracker in Java | Java, Swing, JSON, Unit Testing

Jan '23 - Mar '23

- Developed Java app with GUI for pet care management.
- Incorporated intelligent recommendations for pet routines.
- User-friendly pet management program with features like interaction recording, smart suggestions based on pet history, and intuitive navigation for busy pet owners.

Review Analysis | Python, APIs, Regular Expressions

Aug '22

- Developed a Python desktop application, with APIs to collect and analyze trustworthy customer reviews for Amazon shopping products, featuring text-emotion analysis and graphical representation with matplotlib to offer valuable insights on product performance through customer feedback