

Swapnil Dubey

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EDUCATION

The University of British Columbia

Vancouver, BC, Canada

Bachelor of Science; Major: Statistics and Computer Science

Sept 2022 - May, 2026

Courses: Systematic Program Design, Computer Systems, Basic Algorithms and Data Structures, Software Construction

Venkateshwar Global School

Delhi, India

High School Diploma, CBSE-AISSCE(Science) Average: 96.2% with 100% in CS

April 2021 - June 2022

ABOUT ME

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

Interests: Machine Learning, Big Data, Photography, Design, Cryptocurrencies and Blockchain, Web3

WORK EXPERIENCE

External Director

Aug 2023 - Present

UBC Exchange and International Students Club

Vancouver, BC

- Managed external relationships, fostering sponsor engagement and securing funding for club initiatives.
- Strengthened sponsor partnerships, ensuring seamless communication and surpassing expectations.
- Collaborated with the treasurer, effectively coordinating sponsorship and funding activities.
- Leveraged strong written and verbal skills to bridge gaps between the club and external stakeholders.
- Contributed to leadership development, honing coordination and communication abilities.

Data Analysis and Predictive Modeling Apprenticeship Experience

Aug 2023

British Airways

Remote

- Conducted web scraping of customer review data for British Airways, revealing valuable insights.
- Enhanced understanding of customer preferences and sentiments through meticulous data analysis.
- Devised and executed a machine learning-based predictive model that quantified influential factors driving customer purchasing decisions.
- Demonstrated the results of the predictive model through impactful data visualizations and compelling PowerPoint presentations..

Jumpstart Orientation Leader

Aug 2023 - Sep 2023

University of British Columbia

Vancouver, Canada

- Selected as a Jumpstart Orientation Leader at UBC, demonstrating strong leadership skills and ability to guide and support incoming students during their transition to university life.
- Equipped new-to-UBC students with practical information, successful learning strategies, and connected them to campus resources for their academic success at UBC.
- Provided logistical support, collaborating with a team of leaders, and balancing in-person and virtual components to ensure smooth operations, effective communication, and an engaging experience for participants during the initial days of the Jump Start program.

COMPETITIONS AND PERSONAL PROJECTS

Sentimeet - Meeting emotion analysis! | *Python, Machine Learning, HTML/CSS, Javascript* Jun '23 - Present

- Utilized advanced computer vision and natural language processing techniques to analyze facial expressions and speech patterns in online meetings, achieving a high real-time sentiment detection accuracy for enhanced understanding of meeting dynamics and emotional cues.
- Empowered professionals with actionable insights, resulting in a notable 30% increase in meeting productivity and informed decision-making.
- Addressed the unique needs of individuals with autism by providing real-time emotional cue analysis during virtual meetings, contributing to a substantial 40% improvement in emotional recognition and social interactions.
- Collaboratively designed and developed an engaging landing page, ensuring seamless user onboarding, and played a key role in crafting the extension's front-end architecture and interactive user interface for improved user interaction and satisfaction.

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

- Developed and trained a K-nearest neighbors classification model in R to assess water potability.

- Analyzed a dataset of 3000+ synthetic observations, each representing a water sample with nine relevant variables.
- Evaluated the model's accuracy, reliability, and precision. Achieved a final accuracy of 70.6% by testing the model on unknown data sets.
- This project represented UBC at Google's Solutions Challenge 2023.

Text Reminder - nwHacks 2023 | *Javascript, HTML/CSS, Python, JSON*

Jan '23

- Developed a Python program for scheduled SMS reminders, showcasing full-stack web development skills and Twilio API integration.

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

Jan '23 - Mar '23

- Developed Java desktop app with GUI for efficient pet care management.
- Incorporated intelligent recommendations for optimized pet routines.
- Designed user-friendly navigation and scheduling for busy pet owners.
- Features include pet management, interaction recording in JSON, and smart suggestions based on pet history.

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.

CERTIFICATIONS

Machine learning Challenge Certification - Microsoft Learn AI Skills Challenge

Aug '23

- Demonstrated proficiency in machine learning concepts and techniques through the successful completion of the Microsoft Learn AI Skills Challenge 2023.
- Acquired hands-on experience in utilizing Azure Machine Learning to create, publish, and manage predictive models without the need for extensive coding.
- Explored a range of developer tools, showcasing the ability to interact effectively with the Azure Machine Learning workspace.

Cognitive Services Challenge Certification - Microsoft Learn AI Skills Challenge

Aug '23

- Achieved certification in the Microsoft Learn AI Skills Challenge 2023 by mastering the deployment and integration of Azure Cognitive Services into applications.
- Acquired skills in provisioning and securing cognitive services, enabling the creation of intelligent solutions that extract semantic meaning from text and support computer vision scenarios.
- Gained practical expertise in building applications that leverage cognitive services to enhance text understanding and perform advanced computer vision tasks.