

Navtesh Nijhawan

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Summary

I'm a Data Science student at Simon Fraser University with a 4.13 CGPA, passionate about using machine learning to solve real-world problems. I've worked on projects like heart disease and diabetes predictors, building tools that go beyond the classroom. I also founded STEM and web design clubs to help other students explore tech. With skills in Python, C++, and data analysis, I enjoy working on impactful projects and always look forward to learning and contributing in the AI space.

Education

Simon Fraser University, Burnaby, BC

BSc in Computing Science, Expected Aug 2028

- CGPA: 4.13/4.33 (First Year)

- Relevant Coursework: CMPT115, CMPT120, CMPT125, ECON103, PHYS100, MATH151, MATH152, MACM101

Maru-A-Pula School (IGCSE), 2023

- Grades: 7A*, 2A (Top in country for Computer Science)

- Subjects: Computer Science, Extended Mathematics, Additional Mathematics, English Literature, Physics, Chemistry, English Language, Economics, Accounting

Skills

- **Programming:** Python, JavaScript, HTML/CSS, C++
- **Machine Learning:** TensorFlow, scikit-learn, pandas, NumPy, XGBoost
- **Tools:** Git, Flask, Jupyter, VS Code
- **Soft Skills:** Leadership, Teamwork, Problem-Solving, Communication
- **Certifications:** AI & Machine Learning (Udemy, 2024), Python for Data Science (Coursera, 2024)

Projects

Movie Recommender System | Personal Project | Dec 2024

- Created a collaborative filtering system using pandas and cosine similarity for item-based recommendations
- Deployed via Flask web app with interactive user interface

Heart Disease Prediction Model | Personal Project | Jan 2025

- Built a machine learning model with scikit-learn and XGBoost to predict heart disease risk on a Kaggle dataset
- Preprocessed features like cholesterol and blood pressure using normalization and encoding

Diabetes Predictor | Personal Project | Feb 2025

- Developed a neural network with TensorFlow to predict diabetes onset with 80% accuracy
- Improved model performance via hyperparameter tuning; presented findings with Jupyter Notebook for non-technical audiences

Mine Predictor | Personal Project | Mar 2025

- Built a classification model with Random Forest to identify mine locations using geological data.

Extracurricular Activities

Journalism and Photography | High School | Jan 2019 – Mar 2020

- Published articles on various school sports events including cricket, rugby, and swimming

STEM Club | Founder & Instructor | Oct 2022 – Jun 2023

- Taught 20+ students about circuits; ran hands-on workshops using Arduino

Web Design Club | Founder & Developer | Jul 2023 – Present

- Helped students learn web development basics after identifying a gap in programming exposure

Ray of Hope | Volunteer Teacher | Jan 2024 – Apr 2024

- Taught math and English to 30+ children in rural villages; collaborated with peers to ensure lesson continuity

Brandstorm & PEAK Case Competitions (SFU) | Participant | Jan 2024 – Mar 2024

- Collaborated in teams to solve real-world business challenges with data-backed strategies

Awards

- Top in Country – IGCSE Computer Science, 2023
- FIC Resilience Award, 2023