

Ankur Batta

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Surrey, BC

Summary

Motivated and detail-oriented Computer Science graduate currently pursuing a Post-Degree Diploma in Data Analytics at Langara College, Vancouver. Passionate about developing intelligent software systems, with a strong foundation in Python, machine learning, and cloud technologies.

I bring hands-on experience in software development, data engineering, cybersecurity, and embedded systems, with a deep interest in building scalable and efficient solutions. I have contributed to real-time applications, smart systems, and academic projects in machine learning, AR, and automation. I am eager to apply my skills to impactful tech domains including renewable energy, IoT, and AI.

Skills

Programming Languages: Python, R, SQL, C, C++, Swift, HTML, CSS, JavaScript

Software Development & Frameworks: Django, Firebase, Git, RESTful APIs, ARKit, Microservices Architecture, Object-Oriented Programming (OOP), Data Structures and Algorithms, Compiler Design, Operating Systems, Software Engineering, Formal Languages & Automata Theory

Machine Learning & Artificial Intelligence: Supervised & Unsupervised Learning, Deep Learning, Reinforcement Learning, Feature Engineering, Sentiment Analysis, Natural Language Processing (Basic), Generative Models, Large Language Models (LLMs)

Cloud & DevOps Tools: AWS (Basic), Google Firebase, Terraform (Familiar), Docker, Linux-based Development, Edge Computing, IoT Integration, Serverless Architecture

Data Analytics & Business Intelligence: Data Cleansing & Transformation, Data Mining & Warehousing, Data Visualization, IBM Cognos, Tableau, Microsoft Excel, PostgreSQL, Database Management Systems (DBMS)

Cybersecurity & Networking: Network Security & Cryptography, Wireless Communication, Computer Networks, Adhoc & Wireless Sensor Networks, Cisco Packet Tracer, CCNA Training

Operating Systems & Platforms: Linux (Ubuntu, Kali), macOS, Windows, iOS, iPadOS

Productivity & Design Tools: Microsoft Office Suite (Word, Excel, PowerPoint), Graphic Design (Adobe Illustrator, Adobe Photoshop, CorelDraw), Video Editing Tools (Final Cut Pro, Adobe After Effects, Adobe Premiere Pro)

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Education

Post-Degree Diploma, Data Analytics

Langara College | Vancouver, Canada

May 2025 - Present

Bachelor of Technology, Computer Science and Engineering

Baba Banda Singh Bahadur Engineering College (BBSBEC) | Fatehgarh Sahib, India
Graduated with distinction, (85.2%)

Aug 2020 - Jul 2024

Professional Experience

Intern – IT Infrastructure & Cybersecurity

Nebero Systems Pvt. Ltd. | Mohali, India

Jan 2024 – Jul 2024

- Applied machine learning techniques to enhance IT infrastructure and network security.
- Developed and deployed secure IT infrastructure solutions including network configuration and monitoring tools.
- Optimized system performance through effective troubleshooting and automation scripts.

Freelance Web Developer & Designer

Remote

Jun 2020 – Jul 2023

- Designed and developed responsive website for clients, including a Canadian boutique
- Implemented e-commerce solutions and optimised user experiences
- Created 50+ visual content using Adobe Illustrator and Final Cut Pro
- Delivered high-quality designs and edited videos for diverse clientele

Volunteer Experience

Cashier

BASES: Family Thrift Store | Burnaby, Canada

Apr 2025 – Jun 2025

- Operated the cash register and handled customer transactions accurately.
- Assisted in restocking shelves and organizing merchandise near the counter when needed.

Co-Designer

IDP Education Ltd | Remote

Aug 2024 – Jun 2025

- Contributed to IDP's Student Innovation Labs
- Co-Designing innovative solutions for global student peers

Web Development Team Lead

Google Developer Student Club - BBSBEC | Fatehgarh Sahib, India

Aug 2022 – Jul 2023

- Led web development projects such as Cloning Netflix and mentored team of 12 members
- Developed innovative solutions and improved coding practices

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Academic Projects

- **Blood Glucose Prediction for Type 1 Diabetes Patients** (Machine Learning, Swift, Python):
Built a machine learning model using data from the University of Bristol; the raw dataset was preprocessed by cleaning, reshaping, and merging data from 20 patients to generate 254 time-series features for 1-hour blood glucose prediction.
- **Simulation Optimization for Autonomous Vehicles** (Machine Learning, Python):
Developed a data-driven model to replicate critical scenarios and reduce simulation time for autonomous vehicle testing.
- **iScore** (Machine Learning, Python):
Developed a model for automatic grading of IELTS Writing Task 2 using machine learning algorithms.
- **MLESA – Make Lifestyle Easy with Sentiment Analysis** (Machine Learning, Swift):
Implemented sentiment analysis on social media posts using machine learning techniques.
- **Augmented Reality in Education** (Swift, ARKit):
Integrated virtual and real-world environments for a more interactive learning experience.
- **HealthTrack** (Django, Python):
Developed a calorie counter app, leveraging data transformation and visualization.
- **Smart Home**:
Home automation for lights, climate, security, and energy use.

Certifications

- SQL Intermediate – HackerRank
- Python – HackerRank
- CS50: Computer Science for Business – Harvard University
- Career Essentials in Data Analysis – Microsoft
- Database Foundations: Intro to Databases – LinkedIn
- Introduction to Data Science - Infosys | Springboard
- Behavior of Large Language Models - Infosys | Springboard
- Generative Models for Developers – Infosys
- Deep Learning Onramp – MathWorks
- Reinforcement Learning Onramp – MathWorks
- Object-Oriented Programming Onramp - MathWorks | Training Services
- Python – STEP-GNDEC
- Introduction to Packet Tracer - CISCO
- Cisco CCNA 200-301 Exam: Complete Course with Practical Labs – Udemy
- Certificate for Completion of C++ Training - Spoken Tutorial Project | IIT Bombay

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Workshops Attended

- Azure in Action: Data, DevOps & Deployment Best Practices - Microsoft Office - Vancouver | 1 Day
- App Development with Flutter - Google Developer Student Club - BBSBEC | 3 Days
- Intro to Machine Learning - Google Developer Student Club - BBSBEC | 1 Day
- Deep Dive into ML with Kaggle - Google Developer Student Club - BBSBEC | 2 Days
- Emerging Technologies in Data Analytics - 1 Day
- Participated and Organized Web Development Programme - Google Developer Student Club - BBSBEC | 2 Days

Publication

- An Approach to Automate the Grading Process in IELTS Writing Task
International Journal for Scientific Research and Development, Vol. 12, Issue 1 (2024)

Languages Known

- English, Punjabi, Hindi