

Sanya Bansal

[LinkedIn](#) | [GitHub](#) | [Website](#)

Ph: +1 (437) 733-1773

sanya.bansal.115@gmail.com

JUNIOR DATA SCIENCE, SOFTWARE ENGINEER

Data Analysis | AI, ML | Frontend/Backend | Analytical Skills | Bilingual

- Analytical and detail-oriented Data Science professional with hands-on experience in full-stack development, data analysis, machine learning, and artificial intelligence (AI) projects, which include microservice-based deployments and real-time applications.
- Passionate about applying ML to solve real-world problems, with expertise in leveraging TensorFlow, Scikit-learn and Python libraries, including NumPy, Pandas, Matplotlib, and Seaborn, to extract actionable insights and build data-driven solutions that drive business growth.
- Strong foundation in statistics, probability, and deductive reasoning, applied to real-world scenarios to enhance predictive modelling and decision-making accuracy across Supervised Learning, Unsupervised Learning, and Deep Learning techniques.
- Experienced in full-stack development fundamentals, including HTML, CSS, JavaScript, React, Node and MongoDB.
- Skilled in Python, JavaScript, SQL, and Flask, with a strong interest in applying cloud and DevOps technologies to build scalable, secure, and intelligent digital health solutions.

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C#, Java, SQL
- **Data Science & Machine Learning:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow
- **Web Development:** HTML, CSS, JavaScript (Basic), Flask Framework, React, Node
- **Statistics & Probability:** Hypothesis Testing, Regression Analysis, Data Mining, Bayesian Inference
- **Machine Learning & Deep Learning:** Supervised Learning, Unsupervised Learning, Neural Networks, CNN, Feature Engineering, Model Optimisation
- **AI, Chatbot Development, and RAG**
- **Tools & Platforms:** Google Colab, Jupyter Notebook, Flask, Git, GitHub
- **Database Management:** MySQL, MongoDB, Database Design, Query Optimisation
- **Operating Systems:** Linux, Windows
- **Data Visualisation:** Matplotlib, Seaborn,
- **Computer Science Concepts:** Agile SDLC, Microservices, API Integration, AWS, pipelines.

EDUCATION

Software Engineering Technology - Artificial Intelligence,
Centennial College of Applied Arts and Technology, Scarborough,
Courses:

Jan 2025- Apr 2027

C# Programming	Web Development	Linux/Unix	Introduction to Artificial Intelligence
Java Programming	Web Interface Design	Software System Designs	Artificial Intelligence System Designs
Python Programming	Oracle Database (SQL)	Testing & Quality Assurance	Calculus, Linear Algebra, Statistics

PROFESSIONAL DEVELOPMENT

- **Python- Data Science, AI & ML [Certificate](#)**
- **SQL Database Management [Certificate](#)**
- **C Programming Fundamentals**

PROJECTS

June 2024 - Present

- **E-commerce Product Analysis**

Analysed user behaviour and sales trends using Pandas and Matplotlib, identified top products, customer retention patterns, and seasonal demand.

- **Customer Churn Prediction**

Built ML models using Scikit-learn (Logistic Regression, Decision Tree) to predict churn with 95% accuracy. Applied feature engineering and data visualisation.

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- **Handwritten Digit Recognition (MNIST)**

Trained a CNN using TensorFlow on Google Colab, achieving 98% accuracy. Deployed in a Flask web app for real-time digit classification.

- **Sales Dashboard with MySQL & Python**

Extracted and visualised sales data using MySQL, Pandas, and Seaborn. Created dashboards to track performance and identify growth opportunities.

- **Allergy Safety Web App 2.0 (React)**

Developed a React-based web app that detects allergens from user inputs using an integrated database of ingredients. Implemented HTML, CSS, and MongoDB connectivity to improve accessibility for users with dietary restrictions.

View all deployed projects and dashboards at: [My-Website](#)

WORK EXPERIENCE

Mario Pizza Kitchen, Scarborough, ON,

September 2024- Present

Kitchen Staff & Cashier

- Responsible for preparing food, handling transactions, assisting customers, and maintaining cleanliness and efficiency across kitchen and front-of-house operations.
- Gained experience with POS systems and digital ordering platforms, sparking interest in scalable, user-facing tech solutions.
- Thrive in a fast-paced, customer-facing environment, which directly translates to **strong written and verbal communication** for client/end-user support, and the **ability to manage multiple priorities** and stay organised—essential skills for project execution.

COMMUNITY AND OTHER ENGAGEMENTS

Hackathons

2025 Fleet Zero Transportation Jam,

October 20, 2025- October 24, 2025

First runner-up

[Certificate FleetZero](#)

- Built a prototype AI dashboard in a 4-day hackathon using Python, Flask, and SQL for KPI tracking and performance visualisation.
- Applied agile collaboration with a 4-person team to integrate data APIs and deliver a functional MVP in <72 hours.
- Demonstrated potential for \$85K cost savings by combining AI-driven insights with human expert escalation.

Member / Volunteer

June 2025 - Present

Centennial College- Orientation, Open House, and Afro-Caribbean Fest

[Statement of Recognition](#)

- Active member of a volunteer-led group that promotes diversity and inclusion within the Black Community.
- Attend monthly events intended to support networking, community building, and idea sharing
- Volunteer for events, including assisting with registration, signing in guests, helping newcomers navigate, and helping them get their schedule and my card registered.

State-Level athlete- Volleyball

April 2018 - April 2024

DAV Public School, Ludhiana, Punjab, India

- Represented the school in multiple state-level volleyball tournaments, consistently delivering top performances.
- Served as team captain, leading the squad to numerous victories and fostering team spirit and discipline.
- Earned multiple medals and trophies, contributing to the school's athletic reputation and success

