

# YASH BABARIYA

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Results-driven Computer Science student with excellent analytical and problem-solving skills with a strong foundation in math, logic, and statistical analysis. Eager to contribute to team success through hard work, attention to detail, and excellent organizational skills. Motivated to learn, grow, and excel in industry with numbers.

## PROFESSIONAL EXPERIENCE

Edmonton, Alberta

FEB 2024 – Present

### Co-Founder & Chief Technology Officer (Centauri AI)

- Spearheaded the design and development of an AI surveillance system that performs real-time object detection, motion tracking, and safety compliance monitoring, including apparel and equipment in industrial settings.
- Pioneered the use of cutting-edge AI technologies to develop a system capable of processing and analyzing video content in real-time, enhancing both preventive security measures and immediate incident response capabilities.
- Oversaw the integration of our AI system into client workflows, customizing functionalities to meet specific industry needs and ensuring seamless deployment and operational stability.
- Initiated and led rigorous research and development efforts to advance our AI capabilities, focusing on enhancing algorithm accuracy and speed, which resulted in 30% improvement in the system's response times and detection accuracy. Conducted feasibility studies to explore new features that could predict potential safety violations before they occur.

Edmonton, Alberta

APR 2022 – DEC 2022

### Software Engineer (Whistling Solutions)

- Conducted comprehensive data analysis of activity from 400 monthly active users to inform and optimize marketing and product development strategies.
- Successfully doubled the average user engagement time on the app and reduced the user dropout rate by 30% through targeted improvements and optimizations.
- Developed sophisticated dynamic reports and interactive dashboards using Tableau and Power BI, greatly improving the strategic decision-making process for senior management.

Edmonton, Alberta

APR 2023 – Present

### Data Analyst (Perfect Rentals Ltd.)

- Developed and enhanced financial forecasting models through programming and automation, significantly improving efficiency and accuracy, which supported strategic planning and financial stability.
- Led the automation of key financial processes, including the annual budgeting and monthly variance analyses, utilizing advanced data visualization and software development skills to streamline data integration and reporting, aiding in informed decision-making.
- Conducted in-depth data analysis to uncover key trends and metrics, utilizing this insight to devise strategies that led to a 20% increase in customer retention.

## SKILLS, LEADERSHIP & CERTIFICATIONS

### Technical Skills:

- **Programming Languages & Frameworks:** SQL, Python, C, C++, Java, JavaScript, Swift, Dart, R, MySQL, MATLAB, Julia
- **Unit Testing:** Docker, Kubernetes, TDD, Selenium, Mocha
- **Data Visualization Tools:** Tableau, Power BI, QlikView/Qlik Sense, D3.js
- **Machine Learning & Frameworks:** Regression, Neural Networks, Classification, PyTorch

**Soft Skills:** Problem Solving, Critical Thinking, Communication, Teamwork, Adaptability, Project Management, Version Control.

**Leadership:** Led a team of six peers at the University during the development of an innovative Android app, overseeing project management, design, and deployment, which honed our collective coding skills and delivered a functional application ahead of schedule.

**Certifications:** **Advanced Learning Algorithms** (DeepLearning.AI), **Exploratory Data Analysis for Machine Learning** (IBM), **Version Control** (Meta)

## EDUCATION

University of Alberta, Edmonton, AB

2021 – 2025

**Bachelor of Science, Major in Computer Science, Minor in Mathematics**