

## Austin Varghese

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### PROFESSIONAL SUMMARY

Motivated and adaptable Computer Science graduate with hands-on project experience in software development, data analysis, and machine learning. Strong foundational skills in Python, SQL, cloud platforms, and front-end technologies like React and Node.js. Actively seeking entry-level roles or internship opportunities across software/IT domains including software engineering, web development, data analysis, and data science, with a strong desire to grow in collaborative, innovative teams.

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### Education

**University of Colorado Denver**, Denver, CO

*Master of Science in Computer Science* (GPA: 3.8/4)

**Aug 2023 – May 2025**

Relevant Coursework: Algorithms, Cyber-Physical Systems, Deep Learning, Advanced Computer Architecture, Natural Language Processing C Generative AI, AI with Reinforcement Learning

**Savitribai Phule Pune University**, Pune, India

*Bachelor of Engineering in Information Technology* (GPA: 3.22/4)

**June 2017-May 2021**

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### TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, HTML, CSS, C++
  - **Frameworks & Libraries:** Flask, TensorFlow, PyTorch, scikit-learn, OpenCV, YOLOv5 (All used for College Level Projects)
  - **Databases:** MySQL
  - **Cloud :** AWS (cloud Practitioner), Git
  - **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Power BI, Excel
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### WORK EXPERIENCE

**Brandsol**, Pune, India

*Software Technical Engineer*

**Sep 2022 – Jul 2023**

- Acted as the primary contact for operational and software issues, optimizing system performance and minimizing disruptions.
- Conducted root cause analysis for software bugs, reducing system downtime by **15%**.
- Provided technical training and support, improving user adaptation and software satisfaction.

**Mphasis**, Pune, India

*Software Technical Engineer*

**Aug 2021 – Aug 2022**

- Resolved technical issues with a **G8% user satisfaction rate**.
  - Reduced issue resolution time by **20%**, improving system reliability.
  - Documented software bugs, providing actionable feedback to enhance product functionality.
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### ACADEMIC PROJECTS

- **Automated Podcast Highlighter: NLP-Based Content Discovery** *Aug 2024 – Dec 2024*
  - Developed an AI-powered tool using **NLP summarization** to extract key highlights from audio transcripts.
  - Implemented **sentiment analysis** and **topic modeling** for content structuring.
  - Built an interactive web application with keyword extraction and search features.
- **GridMaster: AI Navigation with Q-Learning** *Aug 2024 – Dec 2024*
  - Designed a **5x5 Grid World environment** to train an AI agent using **Q-learning**.
  - Developed an **epsilon-greedy policy** for reward optimization.
  - Analyzed learning patterns using **Q-value convergence** and **path optimality metrics**.
- **Traffic Sign Detection and Recognition System** *Aug 2024 – Dec 2024*
  - Built a **real-time detection system** using **YOLOv5** for object detection and **CNNs** for classification.
  - Optimized model robustness using **data augmentation** for varying conditions.
  - Developed an **interactive UI** for real-time detection visualization.
- **Sales Data Dashboard using SQL and Power BI** *Dec 2024*
  - Designed an interactive sales dashboard using Power BI to visualize KPIs like revenue, profit, and product performance.
  - Cleaned and analyzed raw transactional sales data from a relational database using SQL queries.
  - Created dynamic charts, slicers, and drill-down reports for stakeholders to track regional performance and sales trends.
  - Automated monthly report refresh using Power BI's scheduled refresh feature and parameterized queries.
- **Facial Age Detection Using CNN** *Jan 2024 – May 2024*
  - Designed a **CNN-based age detection model**, achieving **85% accuracy**.
  - Processed **Kaggle datasets** for enhanced model training.
- **IoT-Based Automated Elevator System** *Aug 2023 – Dec 2023*
  - Developed a **contactless elevator control system** using **QR codes** and IoT components.
  - Designed an intelligent queue management system for optimized elevator scheduling.

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## CERTIFICATIONS & WORKSHOPS

- **AWS Certified Cloud Practitioner (In Progress) – AWS Skill Builder**
- **Introduction to Python Programming – Udemy / HackerRank**
- **Microsoft Excel Data Analysis Essentials (2024) - Coursera**
- **Data Visualization with Power BI – Coursera (2024)**
- **SQL Basics – HackerRank**
- **Programming Foundation Fundamentals – LinkedIn Learning**

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## EXTRACURRICULAR ACTIVITIES

- Strong problem-solving abilities combined with a critical and analytical mindset for efficient debugging and logical decision-making.
- Excellent communication skills—both written and verbal for working with users and peers.
- Quick to adopt and apply new technologies.
- Detail-oriented and committed to continuous learning and certification

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**KEYWORDS**

Python, SQL, Flask, Power BI, Data Analysis, Machine Learning, Node.js, TensorFlow, AWS, MongoDB, NLP, Web Development