

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.

Education

University of Colorado Denver, Denver, CO

Master of Science in Computer Science (GPA: 3.6/4)

Aug 2023 – May 2025

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

Savitribai Phule Pune University, Pune, India

Bachelor of Engineering in Information Technology (GPA: 7.74/10 | ECE: 3.22/4)

June 2017-May 2021

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, JavaScript, TypeScript, HTML, CSS, C/C++
 - **Frameworks & Libraries:** React, Svelte, FastAPI, Flask, TensorFlow, PyTorch, scikit-learn, OpenCV, YOLOv5
 - **Databases:** MySQL, PostgreSQL, MongoDB
 - **Cloud & DevOps:** AWS (EC2, S3, Lambda), GCP (Firestore, BigQuery, Cloud Functions), Docker, Git
 - **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Power BI, Excel
 - **Tools:** VSCode, PyCharm, Jupyter Notebook, Google Colab
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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 **98% 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.

CERTIFICATIONS & WORKSHOPS

- **AWS Certified Cloud Practitioner (In Progress) – AWS Skill Builder**
 - **Introduction to Python Programming – Udemy**
 - **Microsoft Excel Data Analysis Essentials (2024) - Coursera**
 - **Data Visualization with Power BI – Coursera (2024)**
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EXTRACURRICULAR ACTIVITIES

- Strong communication skills with ability to explain technical insights to non-technical audiences.
 - Committed to upholding workplace safety and following all company policies.
 - Adaptable to varying project timelines and travel requirements.
 - Freelance Graphic Designer (2019–2022): Worked with clients on visual assets for web and print materials.
 - Event Coordinator: Led technical symposium logistics, sponsorship, and execution.
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KEYWORDS

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