ANSON MATHEW ALLAN

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EDUCATION

B.Tech in Computer Science with specialization in AI & ML — **May 2024 - May 2028**

Christ (Deemed to be University), Kengeri Campus

WORK EXPERIENCE

Machine Learning Intern, Bharat Electronics Limited (BEL) — **May 2026 - Jun 2026**

- Designed and built an end-to-end real-time intrusion-detection and alert system (YOLOv8 + ByteTrack) for CCTV footage.
- Trained a custom YOLOv8 Nano model on a 6,300-image CCTV dataset, achieving 92.8% mAP50, 91.8% precision, and 85.6% recall at 640×640 resolution on cloud GPU; optimized inference to 8.73 FPS on CPU-only hardware for real-time edge deployment.
- Benchmarked against a custom-trained RT-DETR Large (transformer) model (86.3% mAP50, 0.70 FPS locally), analyzing the speed/accuracy trade-off to justify the deployment model choice
- Engineered zone-based intrusion analytics with zero double-counting and exclusion-zone masking to eliminate false positives from static infrastructure.

PROJECTS

Advanced AI Driving Assistant | YOLO, OpenCV, Flask, Groq Whisper, Voice AI

- Built a real-time Advanced Driver Assistance System combining YOLO-based hazard detection, dynamic lane detection (Hough transform + polynomial curve fitting), and Time-to-Collision hazard warnings
- Implemented Inverse Perspective Mapping (Bird's-Eye-View transformation) to estimate real-world distances to detected vehicles from a single camera feed
- Designed a multithreaded architecture (detection, video encoding, and voice co-pilot running independently) with a Flask-served mobile web dashboard for live HUD display
- Built a voice-activated AI co-pilot (Groq Whisper transcription + vision LLM + text-to-speech) enabling drivers to ask real-time questions about the driving environment

AI Medication and Prescription Manager | GPT-4 Vision, React, Supabase, AI

- Hackathon 2nd Runner-Up (team project)
- Designed and built the UI/UX for an AI-driven medication adherence platform; implemented medication history tracking, health tracking, BMI indexing, and general health info features
- Teammates implemented GPT-4 Vision-based prescription OCR and nudge-reminder logic

VOLUNTEER EXPERIENCE

Google Student Ambassador — **May 2026 - Present**

- Selected as part of an exclusive nationwide cohort to represent Google's AI ecosystem and emerging technologies
- Serve as primary technical liaison between Google and the student body, driving education and adoption of AI and developer tools

GeeksforGeeks Campus Mantri — **July 2024 - Present**

- Official Campus Mantri, serving as primary liaison between GeeksforGeeks and the student community
- Organize and execute campus-level technical events, workshops, and coding activities and upskilling programs

Christ University — **June 2026 - Present**

- Graphic Designer for Christites Association of Sciences and Humanities (2024-2025)
- Head of Media for Department of AI and Data Science Engineering (2025-2027)
- Specialized Graphic Designer for:
  - 2026 IEEE International Conference on Contemporary Computing and Communications (InC4 2026)
  - 39th Annual Conference of Ramanujan Mathematical Society (2024)

ADDITIONAL INFORMATION

- **Certifications:**
  - NPTEL: The Joy of Computing using Python (90%)
  - AWS Certified AI Practitioner
  - Coursera: Google AI Essentials V1 & Google Prompting Essentials
  - IICT, Google & YouTube: Foundation Course on AI Readiness
  - IBM SkillsBuild & Cisco: Artificial Intelligence Fundamentals & Intro to Data Science
- **Awards/Activities:**
  - 2nd Runner-up in National hackathon conducted in association with ASME India
  - 5-Day AI Agents Intensive Course with Google