Ansu M George

+91 8330096423 - ansumgeorge092004@gmail.com - LinkedIn: ansumgeorge - GitHub: cybergirlanss

EDUCATION

VIT Bhopal University   10/2022 - 05/2026
B.Tech in Computer Science (Minors in Cloud Computing) - 8.45/10 GPA   *Bhopal, MP*

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, Java (Basic), Bash/Shell — **Frameworks & Tools:** Flask, NumPy, Pandas, Scikit-learn, OpenCV, AWS, Docker, MySQL

PROJECTS

Threat Detection in Crowded Environments   01/2025 - 04/2025
Technologies: Python, OpenCV, TensorFlow, YOLOv7, AWS EC2, Flask API

- Engineered a real-time surveillance system processing 30+ FPS video streams using optimized OpenCV pipelines with multi-threading implementation
- Developed a custom ensemble model combining YOLOv7 for object detection with LSTM networks for temporal analysis, achieving 93% mAP on test data
- Implemented a distributed architecture using AWS EC2 instances with auto-scaling to handle peak loads during crowded events
- Designed a Flask REST API with JWT authentication for secure alert notifications to security dashboards (response time ¡ 200ms)
- Reduced false positives by 40% through data augmentation techniques and hard negative mining
- **IEEE Certified Presentation:** Published findings in IEEE ICSTSDG proceedings and presented to 200+ attendees (Top 10% cited paper)

Self-Checkout System with Flask & MongoDB   08/2023 - 10/2023
Technologies: Python, Flask, MongoDB Atlas, Docker, ReactJS

- Architected full-stack retail solution handling 100+ concurrent users with Redis caching (99.8% uptime)
- Implemented role-based access control with JWT tokens for cashier/admin privileges
- Optimized MongoDB queries using compound indexing, reducing transaction time from 45s to 36s
- Containerized services using Docker Compose for seamless Windows/Linux deployment
- Conducted load testing with Locust, achieving 20% faster throughput than traditional systems

EXPERIENCE

AICTE Virtual Internship   11/2024 - 12/2024
Edunet Foundation — TechSaksham (Microsoft & SAP)
- Completed AI applications training with focus on business optimization and REST API development
- Designed AI-driven solutions for enterprise process enhancement

FINLATICS Internship   11/2024 - 02/2025
Data Science & Python
- Gained hands-on experience with MySQL, PostgreSQL, and NoSQL databases
- Implemented data versioning and management systems

CO-CURRICULAR

Cloud Zone Club   02/2024 - Present
Core Member
- Serve as a core member of the Cloud Zone Club, organizing workshops and facilitating learning sessions.

National Cadet Corps (NCC)   06/2020 - 12/2022
Cadet
- Completed basic military training and shooting including discipline and leadership programs
- Participated in community service initiatives and social awareness campaigns

CERTIFICATIONS

- AWS Solutions Architect – Associate (Ethnus) — AWS Cloud Practitioner (Coursera) — DevOps Certification (Ethnus)— IEEE Conference Certification— Web Development (Udemy)

HOBBIES

- Avid reader of psychological thrillers and detective fiction (Favorite authors: freida mcfadden, Gillian Flynn)
- Enthusiast of true crime documentaries and forensic science
- Solve logic puzzles and mystery games to enhance analytical thinking