

Ansu M George

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EDUCATION

VIT Bhopal University

10/2022 - 05/2026

B.Tech in Computer Science (Minors in Cloud Computing) - 8.44/10 GPA

Bhopal, MP

TECHNICAL SKILLS

- **Programming Languages:** Python, C++ , Java (Basic) — **Frameworks & Tools:** Flask, NumPy, Scikit-learn, OpenCV, AWS, 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

- 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

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 Virtual Internship

11/2024 - 02/2025

Data Science & Python (Banking Domain)

- Developed predictive models for a banking case study using Python (Pandas, NumPy, Scikit-learn)
- Analyzed customer financial data to identify patterns and improve risk assessment strategies

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) — IEEE Conference Certification

HOBBIES

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