

Ansu M George

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EDUCATION

VIT Bhopal University

B.Tech in Computer Science (Minors in Cloud Computing) - 8.48/10 GPA

10/2022 - 05/2026

Bhopal, MP

TECHNICAL SKILLS

• **Programming Languages:** Python — **Frameworks & Tools:** Flask, NumPy, Scikit-learn, OpenCV, AWS, MySQL

PROJECTS

Threat Detection in Crowded Environments

01/2025 - 04/2025

Technologies: Python, PyTorch, YOLOv8, MediaPipe, 3D CNNs

- Engineered a multi-modal ML pipeline combining YOLOv8 (object detection), MediaPipe (pose estimation), and 3D CNNs (temporal analysis) for real-time threat classification in crowded environments
- Designed feature extraction pipeline capturing spatial, temporal, and interaction features, improving classification accuracy across 8+ threat categories (abuse, arson, robbery, explosion, etc.)
- Applied SMOTE for class balancing, dropout regularization, and class-weighted loss to improve F1 score (92.53%) and AUC (99.47%)
- Optimized inference with half-precision GPU acceleration and adaptive confidence thresholds for reliable real-time detection
- Developed real-time visualization module for monitoring and validation during inference
- IEEE Certified Presentation:** Published findings in IEEE ICSTSDG proceedings and received official IEEE certification

Self-Checkout Counter System

08/2023 - 10/2023

Technologies: Python, Flask, MongoDB, OpenCV, Pyzbar

- Developed a self-checkout kiosk application simulating real-world retail checkout with barcode scanning, inventory management, and digital payment integration
- Implemented real-time barcode detection using OpenCV and Pyzbar, with automatic bill generation linked to MongoDB inventory collections
- Designed workflow for dynamic bill updates, handling duplicate items, out-of-stock prevention, and quantity-based price adjustments
- Integrated UPI QR code generation for payments and CSV export functionality for permanent billing records
- Built a simple user interface flow with camera-based scanning, item confirmation, and final bill display for realistic retail automation

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