

Ajith Goveas

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EDUCATION

Sahyadri College of Engineering and Management
B.E. in Computer Science and Engineering (CGPA: 9.35 / 10.0)

Mangaluru, India
Aug. 2023 – Present

Boscoss PU College
Pre-University Education in PCMC (Score: 555/600 | 92.5%)

Mangaluru, India
June 2021 – July 2023

PROJECTS

KhataPe - Shared Expense Tracker | [GitHub Link](#)

Dec. 2025 – Jan. 2026

Kotlin, Jetpack Compose, Room DB, WorkManager, Preferences DataStore, MVI, Clean Architecture

- Architected an **Offline-First** native ledger app to resolve complex peer debt graphs using clean **MVI Architecture**.
- Engineered a reactive local data layer leveraging asynchronous state flows, **Room DB**, and **Preferences DataStore**.
- Scheduled background processing via **WorkManager** for transactional data queuing under poor network states.

Transliterator (Smart India Hackathon 2025) | [GitHub Link](#)

Sep. 2025 – Nov. 2025

Camera2 API, Android SDK, Kotlin, FastAPI, Google ML Kit, Aksharamukha, Python

- Built a real-time mobile script conversion system processing raw camera stream buffers using the **Camera2 API**.
- Designed a high-throughput pipeline utilizing local **Google ML Kit OCR** for sub-second text and character extraction.
- Connected async Android clients to a custom backend powered by **FastAPI** for cross-vernacular transliteration.

AI Traffic Violation & OCR Pipeline | [GitHub Link](#)

Feb. 2025 – Sep. 2025

Python, YOLOv8, OpenCV, Tesseract OCR, React, Node.js, RESTful APIs

- Engineered a computer vision tracking pipeline processing 30+ FPS video streams using **YOLOv8** during an **IEEE Hackathon**.
- Integrated **Tesseract OCR** and optimized localization thresholds to automate license plate extraction in low visibility.
- Architected a full-stack administrative command dashboard using **Vite + React** connected to backend **RESTful APIs**.

LEADERSHIP & VOLUNTEERING

SSTH & Synergia (Sahyadri College Organizing Committee)

Mangaluru, India

Documentation Lead & Organizing Member

2024 – 2025

- Led a team of 10+ student volunteers to standardize documentation for major technical fests.
- Maintained cross-functional operational records for symposiums hosting over 500+ participants.
- Automated the report generation process, minimizing manual compilation time and overhead.

TECHNICAL SKILLS

Languages: Kotlin, Java, Python, C/C++, SQL (PostgreSQL), JavaScript (ES6+), HTML/CSS

Mobile Development: Native Android SDK, Jetpack Compose (MVI/MVVM), Camera2 API, Room DB, WorkManager, Koin DI

Full-Stack Dev: Next.js, React, Node.js, FastAPI, Vite, Tailwind CSS, RESTful APIs

AI & Machine Learning: YOLOv8, OpenCV, Tesseract OCR, Google ML Kit, PyTorch, Image Processing

UI/UX Design: Figma (Advanced Components), Material Design 3 Guidelines, Responsive Interfaces

Developer Tools: Git/GitHub, Docker, Vercel, Azure Cloud, Postman, Gradle, DataStore, Markdown

CERTIFICATIONS

Coursera Specializations: Modern Android Development (MAD), Generative AI, LLMs, and Responsible AI Systems.

Microsoft AINNOVATION 2025: Microsoft AI Challenge, Applied Machine Learning, and Azure Cloud Architecture Challenge.

HackerRank Certified: Verified Core Competencies in SQL (Advanced Queries), React Framework, and Frontend Architecture.

Infosys Springboard / Technical: Modern JavaScript Frameworks, Linux Systems Administration, Advanced Figma UI/UX Workflows.

Professional Development: Job-Ready Employability and Professional Communication Matrix (Wadhvani Foundation).