

Atharv Ganesh Katyarmal

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Experience

- Research Intern** | *C3I* Jan 2026 – Present
- Software Development Engineer** | *Datacove.ai* June 2025 – July 2025
- Integrated and worked with existing agentic AI API to process legal and recruitment documents for real-time analysis and compliance checks.
 - Built backend workflows using agentic AI API outputs to organize and streamline document handling, reducing manual effort.
 - Published technical blogs on the company website and created internal documentation explaining system workflows and agentic AI API usage in legal and recruitment domains.

Research Paper and Publication

- CheatGuard:A Distributed Multi-Modal Anti-Cheating System for Hybrid Examinations using Custom Trained Models with a Real-Time Alert Dashboard**
- To be presented at 20th INDIACom 13th International Conference on Computing for Sustainable Global Development, Delhi, 8 April 2026*
- Built a distributed AI proctoring system using MediaPipe gaze tracking and YOLOv8 object detection, achieving **93.3% gaze** and **95.5% object detection accuracy** in real-time hybrid exams.
 - Developed a dataset of **2,500+ annotated samples** and trained a YOLOv8-based CNN deep learning model, achieving **84.2% mAP** for automated detection of exam-related violations.
 - Developed a rule-based decision engine with **5-minute temporal windowing** and a Flask REST API, enabling low-latency edge processing, interpretable violation scoring, and scalable privacy-preserving monitoring.

Projects

- Distributed Logging System** | *Apache Kafka, Elasticsearch, Fluentd* | [Github](#)
- Architected a distributed logging pipeline across 2 VMs using a producer-consumer model, achieving real-time stream processing, fault tolerance, **99% log delivery reliability**, and **<100ms latency** for monitoring and alerting.
 - Implemented log ingestion with Apache Kafka, indexed storage and search with **Elasticsearch**, and log aggregation with **Fluentd**, along with heartbeat-based monitoring for automated service health alerts.
- Lambda Serverless** | *Docker, Python, JavaScript, Streamlit, gVisor* | [Github](#)
- Developed a serverless execution environment for Python and JavaScript functions with FastAPI, Docker, and gVisor, achieving **<200ms cold start latency**.
 - Integrated request routing, container pre-warming, and execution time/resource constraints for secure, scalable function execution and built a **real-time dashboard** to monitor function metrics such as response time, error rate, and resource usage.
- Gradopia** | *React.js, Node.js, MySQL, Express.js* | [Github](#)
- Developed a social networking platform using React.js with dynamic components and state management, and Node.js/Express.js REST APIs for user interactions and content sharing.
 - Designed relational schemas in MySQL for follower relationships, search queries, and job postings, enabling referral-based opportunities and efficient placement workflows.

Skills

- Languages:** C++, C, Python, JavaScript, SQL, HTML, CSS, Go
- Frameworks:** React.js, Node.js
- Developer Tools & Platforms:** Linux, Docker, Git, GitHub, Postman, Elasticsearch, Apache Kafka, Fluentd, MySQL Workbench
- Libraries:** YOLOv8, NumPy, Pandas, Redux

Achievements

- 2nd Place**, In-house Kaggle ML Hackathon
- LeetCode: **400+ problems solved** | [Profile](#)
- 98 Percentile** in MHT-CET and **Under 4,000 Rank** in COMEDK
- 3x** recipient of Distinction Award
- 2nd Rank** in SOF ICSO, International Computer Science Olympiad, 7th Grade, School Level

Education

- PES UNIVERSITY, Bengaluru** Sep 2022 – Expected 2026
B.Tech in Computer Science and Engineering **GPA: 7.88**
- NARAYANA OLYMPIAD SCHOOL, Bengaluru** May 2020 – May 2022
Senior Secondary **SCC: 90.6%**