

# Ishaan Snehal Parikh

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## Summary

Dual-degree student in Computer Science (RVCE) and Data Science (IITM) with a strong foundation in DSA, Operating Systems, Computer Networks, and DBMS. Hands-on experience in Agentic AI, ML, Systems Programming, computer vision, and full-stack AI development. Built production multi-agent KYC platforms at Tata AIA and evaluated AI schedulers at Samsung PRISM.

## Education

|                           |                                     |                   |
|---------------------------|-------------------------------------|-------------------|
| RV College of Engineering | B.E. Computer Science & Engineering | CGPA: <b>9.62</b> |
| IIT Madras                | B.S. Data Science & Applications    | CGPA: <b>9.00</b> |

## Achievements, Highlights & Certifications

- Academic Excellence:** 99% Class X | 97% Class XII | JEE Mains **98.5 percentile** | COMEDK **AIR 218** | KCET **AIR 899**
- Leadership:** Head of Operations, ACM RVCE | Senior Associate, E-Cell | Marketing, TEDxRVCE | Open Source & Dev Team, GDG RVCE
- Certifications:** Cisco Certified Network Associate | NPTEL Elite+Silver — Design, Technology & Innovation | SEBI Investor Certificate | Microsoft Power BI Foundational

## Work Experience

Tata AIA Life Insurance    Agentic AI Engineer Intern    Aug 2025 – Oct 2025

- Developed a FastAPI + LangGraph multi-agent orchestration platform across 5 KYC document types (PAN, Aadhaar, Passport, DL, Form 60) with OCR and RAG classification; reduced manual verification by **60%** and onboarding time by **40%**.
- Architected L1/L2/L3 hierarchical memory (Redis & vector DB) for session-persistent KYC with conversational UX and rule-based validation; cut decision time by **35%** and improved Lead-to-Issuance efficiency.

Samsung PRISM - SRI(B)    Research Intern — AI Scheduler Evaluation    Nov 2025 – Jun 2026

- Benchmarked 7 scheduling algorithms (FCFS, SJF, SRTF, RR, Priority, MLFQ, Lottery) for concurrent AI workloads (GPT-2, BERT-Base, OPT-125M) on the ONNXim NPU simulator across 90 interference tasks; identified MLFQ as most effective for mixed on-device workloads.
- Analysed deadline satisfaction and latency tradeoffs across scheduling policies under CPU/GPU/NPU contention scenarios.

Berkeley Soft USA    Product Development Intern — Drawganizer    Feb 2026 – Present

- Engineered an AI drawer organisation system using credit-card homography calibration (ISO/IEC 7810) to convert image pixels to real-world mm without depth sensors or LiDAR; achieved L/W: 88%, Height: 97% calibration confidence.
- Designed a Union-Find-based compartment detection engine to auto-segment drawer layouts, coupling it with a 3D preview and CNC G-code exporter for cross-lap joinery—streamlining manual measurement and layout design into an automated workflow.

Gujarat Junction    Co-founder, Cloud Kitchen    2024 – Present

- Managed P&L, vendor sourcing, menu pricing, and Zomato/Swiggy operations; built margin tracking frameworks for profitability.

## Technical Skills

|            |                                                                                                      |
|------------|------------------------------------------------------------------------------------------------------|
| Languages  | Python, C, C++, Embedded C, Bash                                                                     |
| AI / ML    | Agentic AI, Computer Vision, NLP, Random Forest, XGBoost, LSTM, Semantic Segmentation, Data Analysis |
| Systems    | Linux/Unix, TCP/IP, Network Security, OS, Git                                                        |
| Frameworks | FastAPI, Flask, React, LangGraph, Redis, PyTorch, ONNX Runtime                                       |
| Core CS    | Operating Systems, Computer Networks, DSA, DBMS, OOP                                                 |

## Projects

FraudGraph | Real-Time Financial Fraud Ring Detection    Python, XGBoost, WebSocket    Github

- Architected a real-time privacy-preserving cross-bank fraud-ring detection pipeline ingesting live WebSocket transaction streams, applying Tarjan's SCC and PageRank on a live graph to flag 9-node fraud rings with a 6.3% fraud ratio.
- Built a Differentially-Private Random Forest with SHAP/LIME-based explainability for per-transaction risk scoring, evaluated on 1M+ streamed bank transaction records; supports batch analysis of bank statements with per-transaction risk scoring and feature importance visualisation.

AI Land Cover Change Detection | Western Ghats Deforestation Monitoring    PyTorch, FastAPI, GEE    Github

- Trained a U-Net (ResNet-34 encoder) on DeepGlobe for 5-class land-cover segmentation, reaching 0.714 mIoU and 87.86% pixel accuracy; integrated live Sentinel-2 composite fetching via Google Earth Engine for continuous deforestation monitoring.
- Deployed a React dashboard surfacing year-on-year transition matrices and segmentation overlays, auto-generating PDF conservation reports with alert triggers for high-risk deforestation zones.

Decentralised Multimodal Biometric Auth Framework    Python, IPFS, Ethereum Sepolia    Github

- Designed a fully decentralised identity system with no local database, fusing ArcFace (face), ECAPA-TDNN (voice), and OCR (document) embeddings, AES-256-CBC-encrypted and stored on IPFS via Pinata.
- Deployed Ethereum smart contracts (DIDRegistry + VerificationLog) mapping DIDs to IPFS CIDs—compressing raw 4MB biometric payloads to a 32-byte on-chain hash, with in-memory-only decryption and a unique IV per session.