

Ishaan Snehal Parikh

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Education

RV College of Engineering	B.E. Computer Science & Engineering, 2028	CGPA: 9.62
IIT Madras	B.S. Data Science & Applications, 2028	CGPA: 9.00
Sri Kumaran Children's Home - CBSE	Class 12	Percentage : 97
Sri Kumaran Children's Home - CBSE	Class 10	Percentage : 99

Achievements, Highlights & Certifications

- Academic Excellence:** 99% Class X | 97% Class XII | JEE Mains **98.5 percentile** | COMEDK **AIR 218** | KCET **AIR 899**
- Certifications:** Cisco Certified Network Associate (CCNA) | Diploma in Programming, IIT Madras | NPTEL Elite+Gold

Work Experience

Honeywell Technologies SDE Intern Aug 2026 – Present

- Working on software development and AI-enabled solutions for enterprise applications, contributing to system design, backend development, and intelligent automation.
- Developing scalable services and processing pipelines while collaborating with cross-functional engineering teams to deliver production-oriented solutions.

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.

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.

Berkeley Soft USA Product Development Intern — Drawganizer Mar 2026 – Aug 2026

- 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

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

Technical Skills

Languages	Python, C,SQL
AI / ML	Agentic AI, Computer Vision, Machine Learning, Data Analysis, GenAI, RAG
Systems	Linux, TCP/IP, Network Security, OS, Git,Docker
Core CS	Operating Systems, Computer Networks, DSA
Cloud	GCP,AWS
Tools	OpenCV, YOLO, LangGraph, Redis, Qdrant, Roboflow

Positions of Responsibility

Head of Operations	ACM RVCE Student Chapter
Class Representative	B.E. CSE, RVCE
Associate Roles	Senior Associate, E-Cell Marketing & Sponsorship, TEDx Open Source & Dev Team, Google
Event Organiser	Code Cup 2026 India CV Hackathon 2026 Tech Tank EduAIthon MarketSphere 8th Mile Fest

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.