

PRAKHAR SHUKLA

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#) | [AWS Builder](#) | [Dev.to](#)

PROFILE SUMMARY

Agentic AI and Full-Stack Engineer who ships production LLM systems in domains where a wrong answer costs money. I build fraud-defense and AI-trust infrastructure with held-out metrics, published baselines, and byte-identical reproduction asserted in CI. AWS AIdeas Top 50 Global Finalist, India AI Impact Top 2% National Finalist, National Winner at IIT Delhi, and IEEE-published researcher. Working principle: models propose, code decides.

EDUCATION

S. B. Jain Institute of Technology, Management and Research, Nagpur

Nov 2022 - May 2026

B.Tech in Computer Science and Engineering | CGPA: **8.79 / 10.0**

TECHNICAL SKILLS

- **Languages:** Python, TypeScript, JavaScript (ES6+), SQL, C++
- **AI & Agentic Systems:** Agentic AI, LLM orchestration, Strands Agents SDK, LangGraph, LangChain, RAG, Embeddings, Amazon Bedrock, Groq, MCP, Prompt Engineering, evaluation design, statistical testing
- **Backend & APIs:** FastAPI, Flask, Node.js, Express.js, REST API Design, JWT Auth, OpenAPI/Swagger, Razorpay SDK, Twilio SDK
- **Frontend & Mobile:** React.js, Next.js (14/15/16), React Native, Expo, Tailwind CSS, Redux Toolkit, Framer Motion
- **Cloud, Databases & DevOps:** AWS (Lambda, API Gateway, DynamoDB, Bedrock, SAM, App Runner, CloudFront), Docker, Git, GitHub Actions, CI/CD, PostgreSQL, MongoDB, Supabase, Firebase, Vercel

KEY PROJECTS

Sentinel, Cross-Merchant Fraud Detection [\[Live Console\]](#) [\[API Docs\]](#) [\[GitHub\]](#) [\[Demo\]](#) [\[AWS Article\]](#)

Tech: Python, FastAPI, SQLite & PostgreSQL, AWS Bedrock, Next.js 15, Docker, AWS App Runner & CloudFront

- Built a cross-merchant identity link graph (fan-out, taint at 0.6 per hop) feeding a deterministic 7-feature scorer that emits ALLOW / REVIEW / BLOCK_REC with a full evidence bundle; the LLM writes the narrative, never the score.
- Held-out results (seed 42): precision 0.833, recall 0.882, F1 0.857, both fraud rings caught, zero fraud silently allowed, +INR 38,665 net saving per 1,000 events at p50 1.5 ms and p95 2.7 ms latency.
- Hardened with 206 tests at 91% coverage behind a 90% gate, strict mypy and CI-verified Docker and PostgreSQL parity; published a GBDT baseline that beats the shipped rules on F1 (0.909 vs 0.857) rather than hide it.

Gatehouse, Autonomous Fraud-Defense Agent [\[Live Console\]](#) [\[GitHub\]](#)

Tech: Python, Strands Agents SDK, AWS Lambda, Amazon Bedrock (Nova Micro), DynamoDB, EventBridge, Next.js 16

- Engineered a Strands agent loop that investigates forwarded scam messages through closed tools and escalates only genuine decisions with hash-chained evidence. Prompt-injection safe by construction: no tool accepts raw message content or returns a verdict.
- Staging evaluation over 480 cases: precision 1.00, recall 1.00 (95% CI 0.9887 to 1.0), false-gate rate 0.0% after root-causing a 30.6% pre-calibration rate, at \$0.00026 per case. 457 tests, live household soak.

TruthLayer, AI Hallucination Firewall [\[Live Demo\]](#) [\[GitHub\]](#) [\[AWS Article\]](#)

Tech: Python, AWS Lambda, Amazon Bedrock Titan V2, DynamoDB, AWS SAM, Next.js, TypeScript

- Serverless five-signal claim verification API with Platt-calibrated confidence: 5 Lambdas and 4 DynamoDB tables via SAM, SHA-256 caching cutting Bedrock calls 80%, sub-900 ms at about \$1.50 per month.
- 300-case adversarial benchmark: 95.33% precision and 90.79% F1, with superiority over a cosine-only baseline established by a McNemar test. 286 tests, plus Python (PyPI) and TypeScript SDKs.

Also built: SignalGate ([GitHub](#)), an agentic research-integrity gate for quant signals (catch 0.925 vs a 0.475 baseline, false-reject 0.0, McNemar $p = 0.00029$, byte-identical repro in CI); and ScamShield ([Live Demo](#) | [GitHub](#)), a 5-persona agentic scam honeypot extracting UPI IDs, phones and bank details at 85-90% accuracy.

EXPERIENCE

Kraftor, Multimedia and IT Solutions

Founding Engineer

Nagpur, Maharashtra

Jun 2026 - Present

Tech: React Native, Expo, Next.js, Node.js, Firebase

- Sole engineer for all software at an early-stage IT and multimedia services company: shipped the company website, a role-based operations app with client portal, project tracking, real-time chat and invoicing, and internal lead-gen tooling.

Anishree Technologies

React Native App Development Intern

Nagpur, Maharashtra

Dec 2025 - Mar 2026

- Shipped 2 production Android apps to the Google Play Store in a 3-month internship using React Native, Expo, Firebase and Razorpay; built a JWT-secured Node.js and Express LMS backend on VPS and a 3-role food delivery system on Laravel REST APIs.

HONORS & ACHIEVEMENTS

- Top 50 Global Finalist, AWS 10,000 AIdeas Competition, April 2026, among 10,000+ participants worldwide.
- Top 2% National Finalist, India AI Impact Buildathon (HCL GUVI), among 40,000+ participants nationwide.
- National Winner (Top 15 of 15,000+ teams), SBI Youth Ideathon 2025, IIT Delhi. AI Innovation Award, INR 20,000.
- National Innovation Finalist, Azim Premji University and BITS Pilani Hyderabad, for AI-driven security solutions.
- 2 IEEE-published papers on deepfake detection, IEEE PuneCon 2025 ([IEEE Xplore](#)) and i-manager JIP ([DOI](#)).