Abhinav Anand

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EDUCATION

Degree / Certificate	Institute / Board	CGPA / %	Year
B.Tech in Artificial Intelligence and Machine Learning	Birla Institute of Technology, Mesra	8.59 (Till 6th Sem)	2023 – Present
Senior Secondary	Delhi Public School Ruby Park, Kolkata	87.4%	2022
High School	Indus Valley World School, Kolkata	97.4%	2020

EXPERIENCE

AI Engineering Intern — Agentic UX-to-Code Pipeline Jul 2026 – Sep 2026

CloudNuro — Remote

- Python, LangGraph, Claude & OpenAI APIs — 14-node state machine with human-in-the-loop interrupts and auto-repair loops.
- RAG over component library and versioned knowledge packs; six deterministic CI checks and GitHub PR/merge automation.
- Hash-sealed scope contracts, vision-model scorecards, token budgets; 480+ pytest tests, FastAPI review UI, Figma Plugin renderer.

Research Intern — Endpoint Intrusion Detection (IEPNIS) Jun 2026 – Jul 2026

Illinois Institute of Technology, Chicago, USA — funded research program, selected through BIT Mesra

- Python, psutil — event-driven endpoint agent emitting process and socket state deltas, not full snapshots.
- 22-attribute telemetry schema (hashes, cert status, PID lineage, IP/DNS/port, orphan sockets) to CSV and rolling logs.
- Claude vs GPT prompt harness for BENIGN/MALICIOUS classification, enriched via VirusTotal, AbuseIPDB, OTX, MITRE ATT&CK.
- Response layer: firewall rule injection, quarantine and rename-over-delete remediation.

PROJECTS

FairSprint AI — Agentic AI-Powered Project Management Platform Repository · Live App · API Docs

Python · FastAPI · React · PostgreSQL · Supabase · LangGraph · n8n

- LangGraph agent analyzes tasks, standups and GitHub evidence; proposes re-plans and pauses at a mentor approval gate.
- FastAPI + Pydantic backend on Supabase (PostgreSQL); mentor-token auth with Cloudflare Turnstile; React + Vite UI.
- Per-run LLM/tool-call tracing (Gemini, Groq fallback), deterministic statuses, Prometheus /metrics with P50/P95/P99.

Anvaya AI — Welfare Scheme Voice Navigator github.com/redcode333/anvaya

Python · React · Flask · PostgreSQL · Supabase · LangGraph · LLMs · Prometheus · Grafana

- Voice-first scheme discovery in Hindi, Telugu, English over 3,534 schemes; LLMs propose facts, citizen confirms.
- Deterministic, versioned rules engine over 17 curated rules with quoted source text.
- Offline-capable kiosk with exactly-once sync, application-draft Form Helper, Prometheus + Grafana monitoring.

CricSim — Ball-by-Ball T20 Cricket Simulator cricsim.in

FastAPI · React 19 · Vite · PostgreSQL (Neon) · Recharts

- Python ball-by-ball stochastic engine — outcomes from batting power, bowler economy, wicket threat, pitch and matchups.
- Heuristic XI selector weighting pitch against the opposition attack; per-over bowler and batting-order picks.
- FastAPI + React 19/Vite frontend, Recharts radars over 250 players; PostgreSQL (Neon) auth, Google Sign-In, saves.

TECHNICAL SKILLS

Languages	Python, C++, SQL
Frameworks & Libraries	FastAPI, React, Flask, PyTorch, scikit-learn, XGBoost, Pandas, NumPy, Matplotlib, BeautifulSoup
AI & LLM Workflows	RAG pipelines, Guardrails, Harness Engineering, LangGraph, Agentic workflows & tool calling, embeddings & vector search (FAISS, Chroma), OpenAI & Anthropic APIs, AI Evals, fine-tuning fundamentals
Cloud (AWS)	Amazon S3, Amazon Bedrock, SageMaker, Lambda, Boto3
Databases & Infrastructure	PostgreSQL, MongoDB, Git, Postman

ACHIEVEMENTS & LEADERSHIP

- **2nd Place — ziro.digital Agentic AI Hackathon:** Secured 2nd place among 2,500+ registered students at the national-level hackathon.
- **Shortlisted Team — Smart India Hackathon 2024:** selected for the next round after clearing the internal college-level hackathon.
- **Qualified JEE Advanced 2023** – All India Rank 22,000.
- **Treasurer, Finance Club, BIT Mesra** — managed annual flagship and smaller events with the team.