Abhinav Puri

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Professional Summary

Second year B.Tech student in AI & ML. Ranked 26th in India at Datathon 2026, runner up at Tech Adrishta, and shipped paid client software. Strongest in Java, comfortable across Python, C++ and full stack web, with 550+ DSA problems solved.

Education

Sikkim Manipal Institute of Technology **Expected 2029**
B.Tech in Computer Science and Engineering (AI & ML) *Majitar, Sikkim*

Experience

GeeksforGeeks **Jun 2026 – Dec 2026**
Campus Mantri (Student Ambassador) *Sikkim and Online*

- Reached **4 colleges**, going class to class in Sikkim and online beyond it, and got **150+ students** started in coding, pointing them to GFG, AWS and GitHub resources, and helping them with AWS through the AWS Builder Group.
- Helped juniors and students outside tech, such as architecture, and shared GFG programs online, including MongoDB courses, Snowflake, Google developer programs and certifications.

Freelance Software Developer **2026 – Present**
Self Employed | Electron, React, SQLite

- Designed, built and delivered StockDex, a desktop inventory management system, to a client in about 2 months, from requirements to production release.
- Continue to build and maintain software for other clients alongside classes.

Projects

CrimeNexus – Datathon 2026, 26th Rank in India (Semifinalist) **Jun 2026 – Aug 2026**
Next.js, FastAPI, Zoho Catalyst QuickML, CatBoost, NetworkX

- Designed how the whole platform fits together, from FIR record ingestion to dashboards, maps, network graphs and ML predictions, and built most of the **FastAPI** backend.
- Trained **3 predictive models** on **Zoho Catalyst QuickML** for crime risk, hotspots and repeat offenders, with a local **CatBoost** fallback.
- Deployed on Zoho Catalyst, handling **15,000+** records across 31 districts through 11 modules.

ISRO Bharatiya Antariksh Hackathon 2026 **Jul 2026 – Aug 2026**
PyTorch, FastAPI, Next.js, Google Earth Engine, Docker

- Engineered the reference image search: it reads a scene's metadata and coordinates, expands the area by **50 km** on each side, and fetches the clearest, least cloudy imagery of that place from **Google Earth Engine**.
- Rebuilt cloud covered **LISS-IV** satellite scenes with a reference guided **U-Net**, with confidence heatmaps and a side by side map view.
- Handled a **1.2 GB** scene through its metadata and a **12 MB** preview; deployed on Vercel and Render.

GitStory **Sep 2026 – Oct 2026**
Java, Spring Boot, MongoDB, GitHub API

- Built a multi user platform that turns public GitHub activity into a developer story, with **Spring Boot** REST services on **MongoDB**.
- Started as a way to learn Spring Boot and MongoDB through a real product, and grew into a full stack app.

RESQ – Tech Adrishta 26, Runner Up **Sep 2026**
FastAPI, React, X25519, Ed25519, ChaCha20-Poly1305

- Designed a **zero trust** emergency mesh prototype where every message is encrypted, signed and checked through a **6 step gate**.
- Built with AI coding agents as a base for large scale use, and tested for tampering and revoked keys.

Ongoing Work and Side Projects **2026 – Present**
Python, DenseNet, Java, JavaFX, TypeScript

- Building a **lung disease detection** system with **DenseNet** as a team project, covering pneumonia and other lung conditions. It is planned as high end medical software, not just a model: in depth research, model development and a working application.
- PromptDock, a Chrome extension that adds a Mac style prompt dock to ChatGPT, Claude and Gemini, made for myself and friends.
- Java games such as Sudoku in JavaFX and Maven, small web apps that track coding stats, and small ML experiments to keep learning.

Achievements

- **26th rank in India** at Datathon 2026 by Karnataka State Police, a semifinalist from a very large field of teams.
- **Runner up** at Tech Adrishta 26, SMIT.
- Solved **550+** DSA problems across LeetCode, Codeforces, GFG and more.

Technical Skills

Languages: Java, C, C++, Python, TypeScript
Backend: Spring Boot, FastAPI, Node.js, REST APIs, JWT
Web & Apps: Next.js, React, Tailwind CSS, Electron, Capacitor
Data & ML: MongoDB, SQLite, scikit-learn, CatBoost, PyTorch, OpenCV
Tools: Git, GitHub, Docker, Linux, Bash, Zoho Catalyst, Claude Code