

R SAI PRANAV

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SUMMARY

Computer Science Engineering student and hackathon winner with specialized expertise in Cybersecurity and Digital Public Infrastructure (DPI). Currently contributing to the Sakram Cybersecurity initiative at iSPIRT and conducting Explainable AI (XAI) research at CSIR. Expert in building privacy-preserving systems, hardware-bound cryptographic validation, and large-scale digital trust frameworks.

EDUCATION

2023 – Present	B.Tech in Computer Science Engineering, REVA University	GPA: 8.54
2021 – 2023	PUC, Expert PU College	90%
2019 – 2021	Grade 10, Shree Sarswathi Vidya Mandir School	85.9%

SKILLS

- **Programming:** Python, Dart, Java, C, Solidity, Plutus, SQL, Golang, HTML/CSS
- **AI & Machine Learning:** PyTorch, Scikit-learn, Computer Vision (U-Net, ResNet, MedSAM), Explainable AI (XAI), Federated Learning, Generative AI (Google Cloud Academy)
- **Blockchain & Security:** Cardano, Hyperledger Fabric, Zero-Knowledge Proofs (ZKP), Cryptographic Validation, Digital Public Infrastructure (DPI) Security, System Design
- **Frameworks & Tools:** Flutter, Node.js, MongoDB, Apache Spark, REST APIs, Git/GitHub, Docker, Kubernetes, Postman, Figma
- **Strengths:** Technical Leadership, Rapid Prototyping, Cybersecurity Protocol Design, IP/Patent Drafting

EXPERIENCE

Project Intern — Sakram Cybersecurity Initiative Dec 2025 – Present
iSPIRT Foundation

- Contributing to **Sakram**, a specialized DPI initiative focused on strengthening the cybersecurity posture of India's digital rails.
- Designing secure protocols and trust frameworks to ensure data integrity across interoperable public systems.
- Implementing security primitives to protect large-scale Digital Public Infrastructure from emerging cyber threats.

Research Intern — Explainable AI (XAI) June 2025 – Present
CSIR-4Pi

- Engineering a medical diagnostic pipeline for breast cancer detection using **ResNet-UNet** and **MedSAM**.
- Integrating XAI techniques to provide interpretable heatmaps for AI-driven histology analysis.

Full Stack Developer Intern Dec 2025 – Present
MyStartupWave

- Building full-stack MVPs; leading the development of a Farmer Dashboard (Flutter) for *The Mango Company*.
- Optimized backend APIs and authentication flows, reducing latency for user-facing data visualizations.

LEADERSHIP & INVOLVEMENT

- **Member** — **Google Developer Student Clubs (GDSC), REVA University** 2024 – Present
 - Actively participating in workshops on Cloud Computing, AI, and Android development.
 - Contributing to community-led technical projects and mentoring junior developers on modern tech stacks.
- **Technical Associate** — **FACE, REVA University** 2025
 - Coordinated university-level hackathons and technical symposiums for the CSE department.
- **Core Team Member** — **Great Bangalore Hackathon**
 - Organized a large-scale hackathon event, managing technical logistics and participant outreach.

PROJECTS & PATENTS

Patent Filed (Sole Inventor): *Decentralized System for Spatial-Temporal Data Veracity in DLT Environments with Hardware-Bound Cryptographic Validation* 2026

Aura AI Diagnostics: Built a ZK-proof healthcare tool (Cardano Hackathon Winner).

Architrust: Federated Learning framework for medical diagnostics (Google DeepMind Hackathon).

ACHIEVEMENTS

- Winner — Cardano Hackathon Asia 2025
- Finalist — National Level Project Ideation Contest, BIT
- Participant — 10+ hackathons including Adobe India, HackRx, Google Tunix Hack