

KAVUSIK ROSAN B

Computer Science & Engineer

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EDUCATION

BE in Computer Science & Engineering

Sri Shakthi Institute of Engineering and Technology

2023 – 2027

Percentage: 78%

HSC (State Board)

2021 – 2023

Percentage: 70%

SSLC (Matriculation)

2020 – 2021

Percentage: Pass

SOFT SKILLS

- Problem Solving
- Team Leadership
- Public Speaking
- Critical Thinking & Decision Making
- Creative Design
- Rapid Prototyping

LANGUAGES

- English
- Tamil

SUMMARY

Computer Science student Privacy engineer specializing in adversarial ML and AI-resistant systems. Creator of OBSCURA-shortlisted for AICTE APF 2025 & Yukti Challenge 2025-an advanced media protection platform combating unauthorized AI exploitation. Campus leader organizing hackathons, mentoring 200+ students, and building privacy-first tools: secure mobile apps, encrypted P2P platforms, and biometric systems. Driven to safeguard digital identities through accessible, ethical technology.

PROJECTS

- **Main Project APR 2024**, Title: Obscura Arcanum, Description: Anti-AI image protection system using adversarial ML + encryption. Shortlisted among top 100 projects nationally (AICTE APF 2025). Built with Python, TensorFlow, cryptography libraries.
- **Main Project JAN 2025**, Title: Aufororm Assist, Description: AI-powered mobile app automating form completion using OCR and NLP.
- **Main Project JULY 2025**, Title: Deeplynk, Description: It is Smart Android app that scans links and media files before you open them to block hidden malware, trojans, and phishing threats.
- **Main Project JULY 2025**, Title: Link Shift – Description: Serverless end-to-end encrypted P2P communication platform for secure messaging and file transfer using direct WebRTC device-to-device connection, ensuring privacy and zero data retention.
- **Main Project AUG 2025**, Title: Obscura Dravion – Biometric intelligence system for rapid video archive search with privacy safeguards.

ACHIEVEMENTS & RECOGNITION

- **OBSCURA ARCANUM** - Shortlisted for both AICTE Productization Fellowship (APF) 2025 and Yukti Innovation Challenge 2025, recognizing national-level innovation in AI safety, privacy engineering, and adversarial ML.
- **Department Overall Coordinator** - Managed end-to-end logistics for technical symposiums and workshops, coordinating 20+ volunteers and serving as liaison between students, faculty, and external stakeholders.
- **Department Promotional Coordinator** - Spearheaded marketing campaigns reaching 5,000+ students, designed digital content, and coordinated with faculty to maximize event participation.
- **Department Hackathon Coordinator** - Organized innovation challenges, mentored student teams, and fostered problem-solving culture across campus.
- **College Media Guild Executive & Video Editor** - Produced high-impact promotional content, recognized for enhancing college media visibility.
- **Department Newsletter & Magazine Head** - Managed editorial direction, content design, and publication strategy.

TECHNICAL SKILLS

- **Programming Languages:** Python, Dart (Flutter), JavaScript
- **AI / ML Frameworks:** PyTorch, TensorFlow, Scikit-learn, OpenCV
- **Mobile Development:** Flutter, Android Studio
- **Security & Privacy Engineering:** Cryptography Libraries, Encryption Protocols, Adversarial Machine Learning, AI-Resistant Media Protection, Identity Distortion Protocols
- **Web Technologies:** HTML, CSS, Bootstrap, React, Firebase
- **Networking & Communication:** WebRTC, Serverless P2P Connections, Real-time Encrypted Messaging & File Transfer
- **Computer Vision & Biometrics:** Facial Landmarking, Object/Region Segmentation (YOLO / Mask R-CNN / U-Net), Re-identification Defense, Deepfake & Synthetic Prevention
- **Tools & Platforms:** Git, GitHub, VS Code, Windsurf, Cursor, Coder, Trae, Void, Android Studio, Supabase.

KEY STRENGTHS

- **AI & Privacy Engineering:** Adversarial ML, computer vision, cryptography, and AI-resistant systems
- **Rapid Innovation:** Strong problem-solving, rapid prototyping, and privacy-first product design
- **Technical Communication:** Simplifying complex AI concepts for diverse audiences through teaching and workshops
- **Leadership & Mentorship:** Organizing hackathons, coordinating teams, and building ethical AI communities
- **Full-Stack Development:** Python, Flutter, TensorFlow, with expertise in mobile and web application development
- **Creative Production:** Video editing, media content creation, and Digital storytelling
- **Adaptive Learning:** Continuous exploration of emerging technologies in cybersecurity and AI ethics

TARGET ROLES

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|---------------------------|----------------------------------|
| • Deep learning | • Data Science |
| • Machine Learning | • Software Development |
| • Computer Vision | • Ethical and responsible AI |
| • Artificial Intelligence | • Mobile App and Web Development |

FUTURE SCOPE

I envision a future where AI benefits every individual, not just big systems. My goal is to build technology that empowers people, protects identity, and respects privacy. I believe AI should enhance human freedom and safety while remaining ethical, accessible, and useful for everyone.