

# KAVYA T

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## EXECUTIVE SUMMARY

Engineering student with a strong foundation in programming, skilled in AI/ML tools, blockchain technologies and cybersecurity applications. Aspiring professional seeking opportunities to apply problem solving, research, and project building skills in developing secure and innovative solutions in artificial intelligence, blockchain, and cybersecurity domains

## SKILLS AND ABILITIES

### Technical Skills:

Programming: Python, C language, Java, MySQL, Solidity

Web Development: HTML, CSS, JavaScript, React

Tools: Git, GitHub, VS Code

### Soft Skills:

Teamwork, Time Management, Problem Solving, Communication

## EDUCATION

### KGISL Institute Of Technology

2024-2028

Bachelor Of Engineering in Computer Science Engineering(Cybersecurity)

I Year CGPA – 7.98

## PROJECTS

### AI – Based Traffic Management System:

Built an intelligent traffic management model using YOLOv8, OpenCV, and Raspberry Pi to detect vehicles, accidents, and ambulances in real time.

Integrated Flask backend and Firebase database with React.js dashboard for monitoring and alerts.

### Invoice Tracking WebApp using Flask:

Developed a web application to manage and categorize invoices with Flask, MySQL, and voice-based input.

Implemented payment alerts via Gmail and SMS using Twilio API.

### ERC20 Token Factory Dapp:

Built an ERC20 token factory dApp using Solidity and React, enabling permissionless token deployment on Ethereum Mainnet and Sepolia.

Implemented gas-optimized smart contracts and Web3 wallet integration using HEthers.js, WalletConnect, and Web3Modal.

### CivicChain – Decentralized Governance Platform:

Built a blockchain-based governance platform to enable transparent, tamper-proof tracking of citizen service requests using smart contracts.

Implemented Web3 wallet authentication and immutable audit trails, improving accountability, fraud prevention, and trust in public service delivery.

### MintGuard – Secure NFT Minting & Management Platform:

Built an Ethereum-based NFT platform enabling batch minting, asset management, and enhanced security for creators.

Added individual NFT pause/unpause functionality to protect assets from unauthorized transfers.

## HACKATHON EXPERIENCE

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### PyExpo Hackathon – KGSL (2025)

- Developed a **Donation Matching Web App (concept stage)** using Python, Flask, and MySQL with basic authentication and matching logic.
- Collaborated in a team to design the prototype, applying problem-solving and rapid development skills.

### Smart India Hackathon (SIH 2025)

- Participated in Smart India Hackathon (SIH) 2025 and qualified at the college-level selection round.
- Contributed to the design of an **AI-based Smart Traffic Management System** using YOLOv8, OpenCV, and Flask.

### DUHACKS 5.0 (2026)

- Participated in **DUHacks 5.0 (36-hour hackathon)** and collaboratively designed a real-world blockchain solution under strict time constraints.
- Demonstrated rapid problem-solving, system design, and end-to-end development skills to deliver a working prototype within the hackathon timeline.

## CERTIFICATIONS

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Introduction to Ethical Hacking | Great Learning

Blockchain Basics | Coursera

Fundamentals Of Java Programming | Coursera

Blockchain: The Future | Techara