

# SANJANA K

Phone: +91 7204512019 | Email: k10sanjana@gmail.com | Bangalore, India  
GitHub: github.com/san-j-ana | LinkedIn: linkedin.com/in/sanjana-k-b1a444366

## PROFESSIONAL SUMMARY

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Computer Science Engineering student specializing in IoT, Cybersecurity, and Blockchain with a CGPA of 8.6. Passionate about cybersecurity and secure AI systems, with experience in Python development and academic software projects. Interested in analyzing system vulnerabilities and strengthening the security and reliability of modern AI-driven applications.

## SKILLS

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**Programming Languages:** Python, C, C++, Java, Dart

**Core CS:** Data Structures & Algorithms, Operating Systems, Computer Networks, Object-Oriented Programming

**AI & Security:** Machine Learning Fundamentals, Fraud Detection Systems, Prompt Engineering, Cybersecurity Fundamentals, Network Security

**Tools & Technologies:** Git/GitHub, Linux, SQL, HTML, CSS, Metasploit, Nmap, Wireshark, Burp Suite, Flutter

**Libraries:** Pandas, NumPy, Scikit-learn, Matplotlib

## PROJECTS

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### FraudShield: AI-Powered Fraud Detection System

- Developed a machine learning-based fraud detection system using Random Forest and Isolation Forest models to identify fraudulent online transactions.
- Applied SMOTE and Genetic Algorithms for feature optimization, improving fraud detection recall and model efficiency.
- Engineered behavioural features such as transaction frequency, amount deviation, and time-based analysis for anomaly detection.

### IoT-Based Smart Parking System

- Optimized parking space utilization and reduced manual search time through real-time slot monitoring and remote booking functionality for users.

### RFID-Based Smart Toll Collection System

- Reduced vehicle waiting time and minimized traffic congestion through automated RFID-based toll authentication and contactless payment processing.

## EXPERIENCE

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### Product Pursuit

*App Developer Intern*

- Improved user interaction and application accessibility by contributing to a responsive mobile platform for fresh farm produce management.
- Enhanced application reliability and backend workflow efficiency through structured debugging, data handling, and service integration using Dart.

## EDUCATION

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### Dayananda Sagar College of Engineering

*B.E. Computer Science (IoT, Cybersecurity and Blockchain)*

– CGPA: 8.6 / 10

2023 – 2027

*Bengaluru, India*

### Sri Kumaran Children's Home PU College

*Pre-University Education*

– Percentage: 90.1%

2021 – 2023

*Bengaluru, India*

### Jyothy Kendriya Vidyalaya

*CBSE – Grade 10*

– Percentage: 84.6%

2021

*Bengaluru, India*

## CERTIFICATIONS AND ACTIVITIES

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AI: Search Methodologies — NPTEL (Online Course) | Deloitte Cybersecurity Job Simulation |

Google Cybersecurity Professional Certificate (Currently Learning)

Participated in Development and Cybersecurity Workshops | Volunteered in Cultural and Technical College Events

## LANGUAGES

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English, Kannada, Hindi, Telugu, French