SHASHIVADHAN CHEEPIRI

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Education

SR University   **Warangal, Telangana**
Bachelor of Technology in Computer Science   *2023 – 2026*
- CGPA: 8.8/10.0
- Relevant Coursework: Data Structures, Algorithms, Machine Learning, Database Systems, Cryptography

Govt. Polytechnic Warangal   **Warangal, Telangana**
Diploma in Electrical and Electronics Engineering   *2020 – 2023*
- Percentage: 77%

Publications

Heart Attack Prediction using Random Forest   **2025**
IEEE CCICT Conference   *Published*
- Developed Random Forest classifier achieving 86.89% accuracy for cardiovascular disease prediction
- Implemented Explainable AI techniques using SHAP for model interpretability
- DOI: 10.1109/CCICT65753.2025.00038

Projects

FDI Compliance Aid | *Python, AI/ML, Web Development*   **2025**
- Developed AI-powered web portal to monitor FDI compliance and predict regulatory changes
- Implemented automated compliance monitoring system to help businesses avoid penalties
- Integrated predictive analytics to forecast regulatory updates and policy changes

Secure Voting Protocol with Cryptographic Primitives | *Python, PyCryptodome, RSA*   **2024-2025**
- Designed secure electronic voting system using homomorphic encryption for confidential vote tallying
- Implemented zero-knowledge proofs for vote validation without revealing voter choices
- Integrated digital signatures for voter authentication and fraud prevention

Telegram Home Automation System | *Arduino, ESP32, C++*   **2022-2023**
- Developed IoT-based home automation system controlled via Telegram bot
- Integrated microcontroller with relay modules for remote device control
- Implemented real-time monitoring and feedback system for appliance status verification

Technical Skills

Programming Languages: Python, Java, C++, JavaScript, HTML/CSS, SQL
Machine Learning & AI: scikit-learn, NLTK, Pandas, NumPy, Random Forest, SHAP
Cryptography & Security: RSA, Digital Signatures, Homomorphic Encryption, Zero-Knowledge Proofs
IoT & Embedded Systems: Arduino, ESP32, Microcontrollers, Sensors, PCB Design
Electrical & Electronics: Circuit Design, Power Systems, Control Systems, Digital Electronics, MATLAB/Simulink
Development Tools: Git, GitHub, Jupyter Notebook, VS Code, Google Colab
Cloud & Networking: AWS, Cisco Networking, VPCs, Remote Sensing, GIS

Core Competencies

Soft Skills: Problem Solving, Analytical Thinking, Adaptability, Leadership, Team Collaboration, Communication, Research & Innovation, Project Management, Quick Learning, Technical Documentation

Certifications

Cisco CCNAv7: Introduction to Networks (March 2024)
Theory of Computation - NPTEL IIT/IISc (September 2024) - Score: 67/100
AWS Infrastructure Mastery Workshop - SR University (September 2024)
Cybersecurity Analyst Job Simulation - Forage (January 2025)
Remote Sensing & GIS Training - IIRS (November 2024) - 52 hours