

VENKATESH .V

📍 Porur, Chennai, Tamilnadu, India ✉ rioventkat13@gmail.com ☎ 91+90945 23224

🌐 www.linkedin.com/in/venkatesh-v- 📄 <https://github.com/Venkatesh-Veerasamy>

Summary

As a B.Tech student specializing in Cybersecurity and the Internet of Things, I possess a strong foundation in technology and problem-solving. My hands-on experience includes developing cybersecurity solutions focused on threat detection and vulnerability assessment. I leverage machine learning and AI to enhance security frameworks, demonstrating my commitment to advancing technology and creating impactful solutions.

Education

Sri Ramachandra Faculty of Engineering and Technology, SRIHER *B.Tech in*

Cybersecurity & IoT

86% Percentage

Porur, Chennai,

Tamilnadu, India

Aug 2021 – May 2025

St Joseph's

Secondary School

82% Percentage

Experience

Researcher

Automating Penetration Testing

- Implemented a Q-Learning framework for enhancing security in Vehicle Ad-Hoc Networks.
- Proposed a hierarchical deep reinforcement learning model to improve automated penetration testing.

Security Analyst

2FA Evaluation

- Evaluated the significance of Two-Factor Authentication (2FA) in full-stack web development.

Developer

Nurse Performance Monitoring

- Developed an Android application for assessing nurse performance through interactive assessments.
- Utilized MySQL for efficient question management and score tracking.

Developer

Web Application Security

- Implemented a multi-factor authentication system enhancing user security via three layers.

Developer

Chatbot Development

- Created a chatbot with SQLite for user interaction and conversation history management.

Research Papers

Class Specific Feature Selection Method for Text Classification

- Developed a class-specific feature selection algorithm that significantly improved text classification performance, achieving an accuracy increase of over 37%.

Explainable AI Model in Heart Disease Classification

- Developed a novel Explainable AI model for heart disease classification with 98.41% accuracy, utilizing Grey Wolf Optimization for hyperparameter tuning.

Projects

Encrypt & Decrypt App

Designed an Encrypt & Decrypt App enabling secure communication through AES, DES, and RSA encryption with a responsive, user-friendly interface.

- Utilized CryptoJS and JSEncrypt libraries to implement robust encryption and decryption processes.

Backend Setup for User Management System

Set up a backend user management system with Flask and SQLite, including database design and automation of data validation and insertion processes.

- Utilized Python scripting for creating a virtual environment, handling errors, and streamlining backend workflows.

Image Encryption Tool Development

Developed a Password Strength Analyzer using React during an internship at Pinnacle Labs, implementing advanced password analysis logic.

- Enhanced skills in React and CSS while applying security best practices for a user-friendly experience.

Technologies

Programming Languages: Python, Java, JavaScript, PHP, SQLite, MySQL

Skills: Cybersecurity, Internet of Things (IoT), Artificial Intelligence, Cloud Security, Forensics, Database Management (DBMS), Machine Learning

Hobbies

- Cricket Music
- Cinematic Arts