

SHIVAPRASATH M

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Portfolio: <https://shivaprasath/portfolio> | LinkedIn: <https://www.linkedin.com/in/shivaprasath> | Github: <https://github.com/shiva1021-crypto>

ACADEMICS

ALLIANCE UNIVERSITY 2024-2026

Bachelor of Technology – IT

CGPA: 8.0

SVVB

2021-2022

12th – PCMB

Percentage – 80.16

SKILLS

Technical Skills

Java, Python, JavaScript,

OOPS, Data Structures & Algorithms,

REST APIs

Web & App Development

HTML, CSS, JS, Flask Framework

Databases

MySQL, MongoDB, SQLite

Cloud & Platforms

Microsoft Azure, AWS(Basic)

Tools & technologies

Git, GitHub, VS code, TCP/IP Basics,

OpenCV

CERTIFICATIONS

Oracle Data Platform 2025 Certified

Foundations Associate – **Oracle**

Configuration Management and the

Cloud – **Google (Coursera)**

Data, Security, and Privacy –

University of California, Irvine

(Coursera)

Foundations of Machine Learning –

Coursera

Strengths

Problem Solving

Adaptability

Team Collaboration

Continuous Learning

Analytical Thinking

CAREER SUMMARY

Final year B. Tech Information Technology student with a strong interest in Cybersecurity and Penetration Testing. Hands-on experience in identifying security vulnerabilities, implementing secure authentication systems, and analyzing real-world attack scenarios in web and AI-based applications. Experienced with Linux, networking fundamentals, backend security, and OWASP-based threat mitigation. Seeking a Penetration Testing or Security Engineering internship.

PROJECTS

Biometric Voting System – Secure Authentication Platform

Python, Flask, SQLite, OpenCV, Arduino

- ❖ Developed a secure voting system using facial recognition, fingerprint authentication, and RFID verification.
- ❖ Implemented Flask backend for voter authentication, encrypted vote storage, and admin management.
- ❖ Optimized image processing to achieve < 0.3s verification time.

Self-Driving Car Simulation – Autonomous Navigation System

Python, TensorFlow/Keras, OpenCV, Arduino

- ❖ Built an autonomous navigation prototype with obstacle detection, lane tracking, and real-time decision making.
- ❖ Trained CNN models for road sign and object classification with 92% accuracy.
- ❖ Integrated sensor data and computer vision for steering and path planning.

AI Voice Assistant – Intelligent Speech-Based Automation System

Python, Speech Recognition, Text-to-Speech, APIs

- ❖ Developed an AI-powered voice assistant capable of speech recognition, intent processing, and voice responses.
- ❖ Integrated external APIs to fetch real-time information and automate user queries.
- ❖ Implemented command-based task execution for web search and system-level actions

ACHIEVEMENTS

- ❖ Published IEEE research paper on biometric voting systems
- ❖ Secured 2nd place in Self-Driving Car Hackathon – Alliance University
- ❖ Selected participant – Technofair Hackathon, Alliance University

PUBLICATION

- ❖ Next Generation Voting Approach: A Secured Biometric Voting System – IEEE, 2025 – Link: <https://ieeexplore.ieee.org/document/10823170>