

# NITHILAN S

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## EDUCATION

### Sri Sivasubramaniya Nadar College of Engineering

B. Tech Information Technology; CGPA: 8.533

Chennai, India

August 2024 - July 2028

### Maharishi Vidya Mandir Senior Secondary School

CBSE Class 12th; Percentage: 94.8%

Chennai, India

June 2022 - May 2024

## SKILLS SUMMARY

- **Languages:** Python, C, Java, SQL
- **Frameworks:** Pandas, Numpy, Scikit-Learn, Matplotlib
- **Tools:** GitHub, PowerPoint, MySQL, Oracle SQL
- **Platforms:** Jupyter Notebook, Visual Studio Code

## WORK EXPERIENCE

### SOFTWARE TESTING INTERN | CUMI

June 2025- July 2025

- Automated software testing processes for an internal enterprise web application, replacing previously manual testing workflows.
- Designed and executed end-to-end test scenarios to improve testing efficiency, consistency, and reliability.
- Identified gaps in manual testing and implemented automation to reduce repetitive effort and human error.
- Collaborated with IT and testing teams to understand real-world industry workflows and testing requirements.
- Applied programming and testing concepts to a live production-style environment.

**Technologies & Tools:** Automation Testing, Web Testing, SikuliX, Python

## PROJECTS

### Hybrid RAG Based Multilingual Document Scanner and Explainer

December 2025

- Improved document accessibility by implementing an AI-driven system that scans and summarizes content in local languages.
- Demonstrated advanced backend proficiency by architecting a RAG pipeline using Gemini and ChromaDB for context-aware query resolution
- Delivered a responsive full-stack solution by integrating a high-performance FastAPI backend with a modern React frontend for seamless document processing

### Voice-Activated AI VR World Tour

August 2025 - November 2025

- Improved accessibility and engagement by enabling voice-driven navigation within an immersive VR environment.
- Demonstrated full-stack integration by combining frontend VR interfaces with AI-powered backend services.
- Showcased the practical application of emerging technologies to create an interactive and visually compelling user experience

### Task Management & To-Do Application

October 2025- November 2025

- Streamlined personal task organization by digitizing task tracking and management workflows.
- Enhanced system maintainability by applying clean architectural principles and standardized coding practices.
- Demonstrated proficiency in building end-to-end desktop applications integrating UI, business logic, and database layers.

## CERTIFICATES

### Machine Learning Specialization (Stanford University – Coursera)

December 2025

- Completed a comprehensive specialization covering supervised, unsupervised, and reinforcement learning techniques.
- Gained hands-on understanding of regression, classification, neural networks, decision trees, clustering, anomaly detection, and recommender systems.
- Learned best practices for building, evaluating, and deploying machine learning models for real-world applications.

### Ethical Hacking – NPTEL (IIT Kharagpur)

October 2025

- Learned core concepts of ethical hacking, system vulnerabilities, and cybersecurity fundamentals earning Elite Certification.
- Gained exposure to threat analysis, security practices, and responsible disclosure methods.