

# NITHILAN S

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## EDUCATION

<b>Sri Sivasubramaniya Nadar College of Engineering</b> B. Tech Information Technology; CGPA: 8.533 <b>Maharishi Vidya Mandir Senior Secondary School</b> CBSE Class 12th; Percentage: 94.8%	Chennai, India <b>August 2024 - July 2028</b> Chennai, India <b>June 2022 - May 2024</b>
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## 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

<b>SOFTWARE TESTING INTERN   CUMI</b>	<b>June 2025- July 2025</b>
<ul style="list-style-type: none"><li>○ Automated software testing processes for an internal enterprise web application, replacing previously manual testing workflows.</li><li>○ Designed and executed end-to-end test scenarios to improve testing efficiency, consistency, and reliability.</li><li>○ Identified gaps in manual testing and implemented automation to reduce repetitive effort and human error.</li><li>○ Collaborated with IT and testing teams to understand real-world industry workflows and testing requirements.</li><li>○ Applied programming and testing concepts to a live production-style environment.</li></ul> <p><b>Technologies &amp; Tools:</b> Automation Testing, Web Testing, SikuliX, Python</p>	

## PROJECTS

<b>Hybrid RAG Based Multilingual Document Scanner and Explainer</b>	<b>December 2025</b>
<ul style="list-style-type: none"><li>○ Improved document accessibility by implementing an AI-driven system that scans and summarizes content in local languages.</li><li>○ Demonstrated advanced backend proficiency by architecting a RAG pipeline using Gemini and ChromaDB for context-aware query resolution</li><li>○ Delivered a responsive full-stack solution by integrating a high-performance FastAPI backend with a modern React frontend for seamless document processing</li></ul>	
<b>Voice-Activated AI VR World Tour</b>	<b>August 2025 - November 2025</b>
<ul style="list-style-type: none"><li>○ Improved accessibility and engagement by enabling voice-driven navigation within an immersive VR environment.</li><li>○ Demonstrated full-stack integration by combining frontend VR interfaces with AI-powered backend services.</li><li>○ Showcased the practical application of emerging technologies to create an interactive and visually compelling user experience</li></ul>	
<b>Task Management &amp; To-Do Application</b>	<b>October 2025- November 2025</b>
<ul style="list-style-type: none"><li>○ Streamlined personal task organization by digitizing task tracking and management workflows.</li><li>○ Enhanced system maintainability by applying clean architectural principles and standardized coding practices.</li><li>○ Demonstrated proficiency in building end-to-end desktop applications integrating UI, business logic, and database layers.</li></ul>	

## CERTIFICATES

<b>Machine Learning Specialization (Stanford University – Coursera)</b>	<b>December 2025</b>
<ul style="list-style-type: none"><li>○ Completed a comprehensive specialization covering supervised, unsupervised, and reinforcement learning techniques.</li><li>○ Gained hands-on understanding of regression, classification, neural networks, decision trees, clustering, anomaly detection, and recommender systems.</li><li>○ Learned best practices for building, evaluating, and deploying machine learning models for real-world applications.</li></ul>	
<b>Ethical Hacking – NPTEL (IIT Kharagpur)</b>	<b>October 2025</b>
<ul style="list-style-type: none"><li>○ Learned core concepts of ethical hacking, system vulnerabilities, and cybersecurity fundamentals earning Elite Certification.</li><li>○ Gained exposure to threat analysis, security practices, and responsible disclosure methods.</li></ul>	