

# PATCHA HEMANTH LAKSHMAN

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## EDUCATION

<b>Bachelor of Technology</b>	
<b>Sri Vasavi Engineering college</b>	GPA
Computer Science and Engineering	8.75 / 10.0
2021 - 2025	
<b>Intermediate</b>	
<b>Aditya Junior College</b>	Marks
2019 - 2021	931 / 1000

## EXPERIENCE

<b>Associate Product Engineer Intern</b>	
<b>Orion Data Compliance Solutions Pvt Ltd</b>	
03/02/2025-PRESENT	Chennai
<ul style="list-style-type: none"><li>Developed and optimized data processing workflows using PySpark, contributing to scalable data engineering solutions.</li><li>Created and maintained Python modules for internal automation tasks and data transformation pipelines.</li><li>Gained hands-on experience with Playwright for end-to-end test automation, enhancing test reliability and coverage.</li></ul>	

<b>GenAI intern</b>	
<b>4SightAI</b>	
01/06/2024-01/02/2025	Hyderabad

<b>Roles and Accomplishments</b>	
<ul style="list-style-type: none"><li>Utilizing various LLMs Local, General Purpose Multimodal, Transformers, Azure AI for diverse tasks.</li><li>Building complex prompts for optimal LLM performance.</li><li>Executing critical tasks including tool calling, agent building, and retrieval augmented generation.</li><li>Employing OpenAI threads across multiple project facets.</li><li>Building APIs for integrating AI functions.</li><li>Integrated APIs in React Screen.</li></ul>	

## SKILLS

<b>Programming Languages</b>
Java, Python, C++
<b>Frameworks and Libraries</b>
Django, ReactJS, LangChain
<b>Concepts and Technologies</b>
Data Structures and Algorithms, Object-Oriented Programming, Database Management System, MongoDB, MySQL, Machine Learning, Operating Systems, Computer Networks, Vector Databases, Retrieval Augmented Generation, JavaScript, MySQL

## CERTIFICATIONS

- Certified by MICROSOFT in Azure Fundamentals exam AZ900
- NPTEL certificate on Introduction to Information Technology
- NPTEL certificate on Introduction to Internet of Things
- NPTEL certificate on Data science For Engineers
- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional
- Oracle certified cloud Architect
- Oracle Machine Learning using Autonomous Database Certified Associate
- Oracle Cloud Infrastructure 2023 Certified Foundations Associate

## PROJECTS

<b>Automatic Exam Seating Arrangement</b>	
<b>Technology stack:</b> Python, Django, MySQL database, HTML, CSS, JavaScript, Tomcat Server.	
<ul style="list-style-type: none"><li>Engineered a Python Django tool, optimizing seating for exams</li><li>Utilized a greedy algorithm to prevent students with the same examination from sitting beside each other</li><li>Automated a previously semi-automatic system, reducing processing time by over 70%</li></ul>	
<b>Digital Notice Board System</b>	
<b>Technology stack:</b> Python, Django, HTML, CSS, JavaScript, SQLite In-Built Database.	
<ul style="list-style-type: none"><li>Developed software for digital notice boards in a team of six.</li><li>Created a control panel for department heads and admins to manage content.</li><li>Enabled uploading and displaying of images, videos, text announcements, and timetables.</li><li>Deployed the application on Raspberry Pi 4 over LAN.</li><li>Integrated Time-Table API to display schedules for 900+ students.</li></ul>	

<b>QR attendance using python</b>	
<b>Technology stack:</b> Python, MySQL.	
<ul style="list-style-type: none"><li>Implemented QR code-based attendance management using Python.</li><li>Automated attendance recording and report generation in Excel.</li></ul>	

## POSITION OF RESPONSIBILITIES

- Class Representative since the first semester.
- Tech Architect of Microsoft Learner Student Club in SVEC2023-2024.
- Chief coordinator for AVINYA2K24 SVEC, a 24 hours hackathon organized in our college with more than 80 teams and 400 participants.

## ACHIEVEMENTS

- First prize in Neuro-Active a technical event conducted in our college technical fest.
- Participated in Hack-Overflow 24-hour hackathon at our college in 2022