

# Madhavan A Ramanujan

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## SUMMARY

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**Motivated Computer Science undergraduate** specializing in AI & Robotics with strong foundations in **Data Structures, Algorithms, and Machine Learning**. Hands-on experience in AI-based image analysis and algorithm visualization through academic projects. Certified by **Oracle University** in AI Foundations and Generative AI.

## EDUCATION

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**VIT Chennai, Tamil Nadu, India**

**B.Tech – Computer Science & Engineering (AI & Robotics)**

**2023 – 2027 | CGPA: 8.10**

## SKILLS

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**Programming Languages:** Java, Python, C, C++

**Core CS:** Data Structures & Algorithms, Sorting, Graph Algorithms, Operating Systems, DBMS, Computer Networks

**AI & ML:** Machine Learning basics, Image Classification

**Tools:** Git, HTML/CSS, Flask

## INDUSTRY-ORIENTED TRAINING & CERTIFICATIONS

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**Oracle University – Oracle Cloud Infrastructure (Summer 2025)**

• **OCI 2025 AI Foundations Associate – Score: 83%**

• **OCI 2025 Generative AI Professional – Score: 72%**

Completed as a structured summer learning program in place of an internship.

## PROJECTS

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### Dyslexia Detection Using Handwriting Images

- Built ML system to identify dyslexia indicators from handwriting using image processing
- Developed classification pipeline and Flask-based web interface
- Focused on early learning difficulty detection through automation

[GitHub: https://github.com/Maddy152006/dyslexia-detection-ai](https://github.com/Maddy152006/dyslexia-detection-ai)

### **Sorting & Graph Algorithm Visualizer**

- Interactive visualization tool for sorting and graph traversal algorithms
- Step-by-step animation to improve algorithm understanding
- Implemented using Python and web technologies

[GitHub: https://github.com/Maddy152006/Algorithm-Visualizer-mini-project-](https://github.com/Maddy152006/Algorithm-Visualizer-mini-project-)

### **ACHIEVEMENTS & ACTIVITIES**

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**Maintained CGPA of 8.10** in a competitive engineering program. Actively involved in academic projects and continuous self-learning.