

Madhavan A Ramanujan

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SUMMARY

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

VIT Chennai, Tamil Nadu, India

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

2023 – 2027 | CGPA: 8.10

SKILLS

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

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

AI-Powered Dyslexia Detection System (CNN + OCR, Web App)

• Built and trained CNN-based handwriting classifier for dyslexia patterns (Normal, Reversal, Corrected)

• Processed 100,000+ handwritten character images, evaluated on 56,723 validation samples

• Developed interactive Flask web application (app.py) for real-time image upload and

automated screening

- Achieved ~96–97% validation accuracy with robust multi-class performance

[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

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