Madhavan A Ramanujan

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SUMMARY

Computer Science undergraduate specializing in AI & Robotics with strong foundations in Data Structures, Algorithms, and Machine Learning. Hands-on experience building deep learning systems and algorithm visualization tools. Oracle-certified in AI Foundations and Generative AI.

EDUCATION

VIT Chennai — B.Tech Computer Science & Engineering (AI & Robotics) | 2023–2027 | CGPA: 8.10

TECHNICAL SKILLS

Languages: Java, Python, C, C++
Core CS: Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, Graph Algorithms
AI/ML: Deep Learning (CNN), Image Classification
Tools: Git, Flask, HTML/CSS

CERTIFICATIONS

• Oracle Cloud Infrastructure AI Foundations Associate — 83%

• Oracle Cloud Infrastructure Generative AI Professional — 72%

PROJECTS

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

• Trained CNN on **100,000+ handwritten character images**, evaluated on **56,723 validation samples**

• Developed Flask-based web application for real-time handwriting upload and automated dyslexia screening

• Achieved **~96–97% validation accuracy** across Normal, Reversal, and Corrected classes
GitHub: github.com/Maddy152006/dyslexia-detection-ai

Sorting & Graph Algorithm Visualizer

• Interactive visualization of sorting and graph traversal algorithms using step-by-step animations

• Implemented using Python and web technologies
GitHub: github.com/Maddy152006/Algorithm-Visualizer-mini-project

ACHIEVEMENTS & ACTIVITIES

Maintained consistent academic performance while actively engaging in project-based learning and continuous skill development.