

Harish Vardhan D

Tech Enthusiast

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EDUCATION

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| Coimbatore Institute of Technology <i>Bachelor of Engineering in Computer Science and Engineering</i> | Coimbatore, India Aug. 2023 – Jul. 2027 |
| Indian Institute of Technology, Madras (IITM) <i>B.S. in Data Science and Applications</i> | Online Jan. 2024 – Jan. 2030 |

EXPERIENCE

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| Winter Intern – TNAU Disease Prediction App (via PDC, CIT) <i>Coimbatore Institute of Technology</i> | Dec. 2024 – Feb. 2025 <i>Coimbatore, India</i> |
| <ul style="list-style-type: none">Developed ANN models to predict rice diseases using weather data with arcsine-transformed targets.Optimized TensorFlow/Keras models and converted them to TensorFlow Lite for offline mobile inference.Integrated models into an MVVM-based Android app with REST API and Jetpack Compose UI. | |
| Summer Intern – Iideo Company <i>Remote</i> | May 2025 – Jun. 2025 <i>India</i> |
| <ul style="list-style-type: none">Built an MCQ parser-enhancer app using Streamlit and Gemini AI for education automation.Used PyMuPDF + Tesseract for OCR-based extraction from PDFs, DOCX, Excel, and images.Generated explanations, difficulty levels, tags, and topics using Gemini; exported results to Excel. | |

PROJECTS

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| Ink Blaze – PDF Reader App Ollama LLM | Mar. 2025 – Apr. 2025 |
| <ul style="list-style-type: none">Developed the Flask backend to handle document upload, highlighting, and extraction workflows.Integrated REST APIs with React Native frontend for real-time interaction.Enabled intelligent MCQ generation from highlighted content using Ollama LLM. | |
| Aura Safe – Explicit Content Filter (Ongoing) Python, Async I/O | Oct. 2024 – Present |
| <ul style="list-style-type: none">Building a real-time AI system to detect and block explicit content before upload.Implemented a 2-pointer scanning algorithm (Floyd's Tortoise and Hare) for fast media traversal.Leveraged asynchronous processing to efficiently filter and delete flagged content pre-upload. | |
| NeuroFocus – Cognitive Fatigue Recovery (Ongoing) React, TensorFlow | Jun. 2025 – Present |
| <ul style="list-style-type: none">Trained a TensorFlow model to detect user fatigue via webcam-based facial monitoring.Collaborating on frontend logic using React to manage fatigue detection and break prompts. | |

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript (beginner)
Frameworks & Platforms: TensorFlow, TFLite, MediaPipe, Streamlit, React (learning), React Native (learning)
Developer Tools: Git, Google Colab, VS Code, Android Studio
Libraries: NumPy, pandas, scikit-learn, Keras, Matplotlib
Other: Tesseract OCR, Gemini AI

ACHIEVEMENTS

Runner-Up – Pragyana 2025 (NIT Trichy): Developed a tech solution for worker safety in a national hackathon.
Zonal Finalist – Eureka 2024 (IIT Bombay): Ranked among the top 600 teams in India's premier startup challenge.
Smart India Hackathon 2024: Selected to represent CIT with a socially impactful project.
DSA Practice: Solved 500+ coding problems across LeetCode, GFG, and HackerRank.

CERTIFICATIONS

Machine Learning Specialization – Coursera (by Andrew Ng)