AARTHI R
SOFTWARE DEVELOPER

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EDUCATION

Chennai Institute of Technology – Chennai, India
Bachelor of Technology in Computer Science and Business Systems
Expected Graduation: May 2026
- **CGPA**: 8.76
- **Key Coursework:**Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks,Digital Logics, Computer architecture and fundamentals

Peace On Green Earth Public School– CBSE Board

10TH HSLC : (Graduated - 2020)
=>PERCENTILE **93%**
12TH SSLC : (Graduated 2022)
=>(Subjects: Physics, Maths, Chemistry) - **Cutoff =>160.5**
=>PERCENTILE **85%**

EXPERIENCE

Machine Learning Intern – Shiash Info Solutions   **(May 2024 – July 2024)**
- Gained hands-on experience in developing and evaluating machine learning models.
- Learned data preprocessing, feature engineering, and model optimization techniques.
- Collaborated with a team to integrate solutions into existing workflows.

Technical Intern – TechMedZ Labs(Nov 2023 – Dec 2023)
- Designed and implemented a chatbot to enhance website engagement.
- Applied Python, HTML/CSS, and JavaScript for seamless functionality and user experience.
Worked closely with a team to ensure smooth deployment and improved response time.

Full Stack Intern – Hejex Technologies, Chennai
- • Developed an Employee Management System using React (frontend) and Node.js (backend).
- • Implemented REST APIs for CRUD operations and connected with MySQL database.
- • Dockerized the application and hosted it using Docker containers.

PROJECTS

PlantMed – Crop Disease Detector (Presented research at IEEE Conference for publication.)
- PlantMed – Crop Disease Detector (IEEE Conference Submission)
- Developed a mobile app with an user-friendly simple intuitive interface and the trained machine learning model predicts the disease for tomato and bell
- pepper Achieved 80% accuracy on 5000+ leaf images, helping farmers reduce crop losses through early detection.

DEEP FAKE NEWS & VIDEO DETECTION:
- Built a Deepfake Detection Model using Python, TensorFlow, and OpenCV to identify manipulated media.
- Implemented CNN and Transfer Learning for improved accuracy and verified API responses using Postman.
- Developed a real-time detection system with Streamlit for UI and Flask for backend deployment.

SKILLS

Programming Languages: Python, Java, MySQL , JavaScript, HTML, CSS
Frameworks/Tools: React, Node.js, express.js, RESTful Apis,Git, Postman, Tensorflow, Flask.
Technical Skills: Problem Solving, Full-Stack Development, System Design.
Deployment/cloud: Docker, aws
Other Skills: Event Management, Public Speaking

COMPETITIVE PROGRAMMING

1.**LeetCode:**500+ problems solved**| Contest Rating:**1,483**| Global Rank:**316,026/650,495
2. **HackerRank:** Silver Badge (Python) **|** Bronze Badge (Problem Solving)
3. Solved 250+ Medium, 80+ Hard, 300+ Easy problems

CERTIFICATIONS

- Certified AWS Cloud Practitioner
- Cybersecurity Security and Essentials - Cisco
- AWS Certified Solutions Architect - Coursera
- Python for Data Science, AI & Development - Coursera

RESEARCH & PUBLICATION:

- **PlantMed:** AI-Based Plant Disease Detection Developed an AI-powered plant disease detection system using deep learning and computer vision for real-time diagnosis via a mobile application.
- Introduced a novel hybrid CNN model, optimizing feature extraction and classification, achieving **92% accuracy** on a dataset of **10,000** annotated leaf images of tomato and rice
- Enhanced efficiency by reducing manual diagnosis time by 80%, integrating chatbot-based recommendations for instant treatment insights.
- Presented in **IEEE Conference** due to its scalable approach, IoT-driven smart monitoring, and edge computing capabilities for offline analysis in remote areas.

ACHIEVEMENTS

- Presented at the IEEE International Conference, highlighting tech innovation.
- District Head for YUCI, driving impactful education and environmental projects.
- Organized 'Unmute' Open Mic Event – Showcases leadership and management skills
- Shortlisted for talkathon on university level

LEADERSHIP & VOLUNTEERING

- **State Zonal Head, YUCI**: Led social and environmental initiatives, engaging 250+ participants.
- **Organizer, 'Unmute':**Coordinated event participants providing them platform to showcase their own talents
- **Hackathon & Tech Event Organizer**: Led cross-functional teams in organizing coding competitions and hackathons, ensuring smooth execution.