VELAVAN R

◉ Chennai, Tmail Nadu ✉ srivelavan11@gmail.com ☎ +917204989132 in LinkedIn ⃝ GitHub

Career Objective

BE Computer Science Engineering student specializing in Artificial Intelligence and Machine Learning, with foundational programming skills in Python and Java, and a strong interest in developing machine learning algorithms for data analysis and predictive modeling.

Education

Chennai Institute Of Technology   *Sept 2023 – May 2027*
BE, Computer Science & Engineering(Artificial Intelligence And Machine Learning)

- CGPA: 8.2/10

Experience

Research & Development • Internship   *Chennai, Tamil Nadu*
Chennai Institute Of Technology, Chennai   *Oct 2024 – Dec 2024*

- Conducted self-directed research on scalable drone detection systems, focusing on a comprehensive review of deep learning methods utilizing RF data.
- Analyzed various techniques and their effectiveness in enhancing detection capabilities, contributing to advancements in the field.

Projects

Age Detection System using OpenCV

- Developed a real-time age detection model using OpenCV. Analyzed facial features to estimate age groups with 95% accuracy. Provided demographic insights for targeted marketing in malls.
- TensorFlow, OpenCV, Python,Matplotlib

License Plate Recognition System

- Developed an AI-based license plate recognition (LPR) model using optical character recognition (OCR) and computer vision techniques. Achieved 93% accuracy in identifying, segmenting, and recognizing license plates from images and videos. Enabled automated vehicle identification and traffic control
- Tools Used: Tesseract OCR, Python, OpenCV, NumPy & Pandas

Technologies

Languages: Python, Java, C/C++
Web Development : HTML, CSS, JavaScript, MERN Stack
Core Competencies : Machine Learning Engineer, Deep Learning Developer, AI-based Application Development, Data Preprocessing, API Integration, Computer Vision
Frameworks Libraries : OpenCV, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Framer Motion, DeepStream SDK, Flutter, FastAPI, Flask

Leadership & Extracurricular

Arduino Workshop Mentor – School Outreach Program : Conducted a hands-on Arduino training session for school students, introducing them to **microcontroller basics and electronics prototyping**.
Technical Coordinator : Directed end-to-end development of digital tools to streamline club operations and event management. Conducted **interactive workshops**, blending tech and soft skills to empower members with both coding and collaboration techniques.
Technical Symposium – Hospitality Head : Led the hospitality and logistics team for a university-level technical symposium, managing accommodations, guest relations, and on-site support for **500+ participants**

and dignitaries.

Coding Contest

- **LeetCode:** Velavan R ↗
- **CodeChef:** Velavan R ↗
- **HakerRank:** Velavan R ↗

Certifications/Languages

- English, Kannada, Tamil, Hindi.
- NPTEL Certification - Computer Architecture, DBMS, Deep learning.
- CISCO Networking Academy- Introduction to Cybersecurity,
- Coursera- Data Structures and Algorithms Specialization
- Simplilearn- Introduction to SQL, Java Servlet Basics and JSP 101

Extra Curricular Activities

Solved over 250 problems on LeetCode, while maintaining a contest rating of over 1800. Active CodeChef programmer, progressing towards a rating of 2.   Jan 2023

Awards and Achievements

- Shortlisted for Round 2 in the SDG Hackathon.
- Recognized for developing an AI-driven solution aligned with Sustainable Development Goals.
- Participated in hackathons including IEEE IES Generative AI Hackathon, FOSS Hackathon, and Smart India Hackathon (SIH).