Sanjay Duraipandian

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Skills

- **Machine Learning algorithms | Tensorflow | Pytorch | Keras | NLP | Computer Vision | AWS Cloud Practitioner**
- **HTML | CSS | JavaScript | Python | Java | R | SQL | Express | Node | React | Unix | jQuery | NoSQL | Git**
- **Shell | C++ | C | Chatgpt v4 | English, Tamil, German** – *All professional proficiency or above*

Experience

Web Developer Intern   **FORD Global Technologies**   *Chennai, TN, India*   **08/2023 - 11/2023**

- Engineered Restful APIs using **Java Spring Boot** for image comparison • significantly improving processing speed, Implemented an invoice data extraction demo with **OpenCV** and **Tesseract**, enhancing accuracy by **20%** • Debugged and optimized existing web applications, contributing to **3** major projects and increasing team efficiency.

Hackathons   **Shell.ai**   *Online*   **05/2024 - 09/2024**

- Innovated digital solutions for **fleet decarbonisation** using **AI**, leading to a **15%** reduction in carbon footprint.

ICDEC 2024 Challenge   *Online*   **05/2024 - 07/2024**

- Engineered advanced **vehicle detection models** with annotated images under varied weather conditions; leveraged **YOLO** annotations, achieving a **95%** accuracy rate and improving road safety analytics.

Prasunethon   *Online*   **05/2024 - 08/2024**

- Developed an **AI system for real-time mental health monitoring** through user interactions (text, voice), providing personalized support and reducing response times by **30%**.

Woodpecker's Hackathon   *Online*   **05/2024 - 07/2024**

- Created a **generative AI-based machine learning mode**l for real-time **fraud detection**, enhancing security by predicting and Mitigating risks across diverse sectors.

Education

Vellore Institute of Technology   *Chennai, TamilNadu*   **09/2021 - 08/2025**

Bachelor of Technology

- Major in Electronics and Computer Engineering

Minors

- Artificial Intelligence and Machine Learning

Schooling   **St.Johns Public School**   *Chennai, TamilNadu*   **06/2014 - 02/2021**

- **C**entral **B**oard of **S**econdary **E**ducation till **12th Grade**
- Physics, Chemistry, and Mathematics with Computer Science

Projects

- **PORTFOLIO WEBSITE:** Enhanced a personal portfolio website using **HTML, CSS, JavaScript, EJS, and NodeJS**. Showcased projects and technical skills, increasing online visibility and engagement Link to MyPortfolio.com   **12/2023**

- **STOCK PROPHET:** Built an **ML model** for accurate stock price forecasting, empowering investors with predictive insights and improving decision-making capabilities. WebApp link   **05/2024**

- **IOT-BASED WATER LEVEL MONITORING SYSTEM AND ALERT SMS SYSTEM:** Designed an **Arduino-based** system with ultrasonic sensors to monitor water tank levels and send mobile alerts at **90%** capacity, preventing overflows and ensuring efficient water usage. Pjt link   **06/2023**

Certifications

- **AWS** Cloud Practitioner - **Amazon**
- **AI** Fundamentals AI900 - **Microsoft Azure**
- Practical **MachineLearning** - GUVI
- **DeepLearning** with **tensorflow** - GUVI
- **Vertex AI** DataAcquisition and Exploration - GUVI
- **Natural Language Processing** with python - GUVI
- **DeepLearning** with **Keras** - GUVI
- **CHATGPT** for Programmers - GUVI
- **MachineLearning 101**- GUVI
- **DeepLearning** with **Pytorch** - GUVI