

## **SANJAY M**

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Location: Tirunelveli, Tamil Nadu, India

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## **OBJECTIVE**

To work in a challenging and innovative environment that encourages continuous learning, growth, and opportunities to contribute towards the organization's success while expanding my technical and leadership abilities.

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## **EDUCATION**

### **B.Tech – Artificial Intelligence and Data Science**

Sri Krishna College of Engineering and Technology, Coimbatore

CGPA: 7.9 (as of Nov 2024)

### **HSC (Higher Secondary Certificate)**

Rose Mary Matriculation Higher Secondary School, Palayamkottai

First Year: 85% | Second Year: 85.6%

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## **TECHNICAL SKILLS**

- **Languages:** C++, Python, Java, SQL, HTML, MongoDB
  - **Frameworks & Libraries:** Flask, React JS, React Native, OpenCV, TensorFlow, Keras
  - **Databases:** MySQL, MongoDB
  - **Tools & Platforms:** Tableau, Twilio, Git, VS Code, Google Colab
  - **Concepts:** Machine Learning, Deep Learning, Data Visualization, Full Stack Web Development, API Integration
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## **INTERNSHIP EXPERIENCE**

### **Machine Learning Intern**

**Prodigy Infotech** – Remote | Jan 2024 – Feb 2024

- Built ML models for classification and regression using Python, Scikit-learn, and Pandas.
- Achieved 92%+ accuracy through data preprocessing, feature engineering, and hyperparameter tuning.
- Delivered weekly reports and collaborated in code reviews.

### **Machine Learning Intern**

**TechnoHacks Edutech** – Remote | Dec 2023 – Jan 2024

- Developed House Price Prediction and Wine Quality Classification models.
  - Applied EDA, model validation techniques, and used tools like NumPy, Pandas, and Scikit-learn.
  - Gained practical experience in end-to-end ML workflow and result interpretation.
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## **PROJECTS**

### **1. AI-IoT Based Smart Stick for the Visually Impaired**

- Designed a smart stick using ultrasonic sensors and Python for real-time obstacle detection and navigation assistance.
- Features include distance-based alerts and emergency SMS using GSM modules.

### **2. Apple Tree Health Monitoring Using Drone System**

- Implemented a CNN-based model with thermal and HD camera inputs to identify diseases like black spots and white powder.
- Utilized Inception Network and K-means clustering for better feature extraction and segmentation.

- Integrated YOLOv7 for disease detection and Random Forest for pesticide recommendation.

### **3. Deepfake Image Detection System**

- Developed a web app using Flask and React to detect manipulated images using the Xception deep learning model.
- Focused on identifying facial artifacts and inconsistencies in tampered media.

### **4. Natural Disaster Prediction & Alert App**

- Built a mobile application using React Native and Flask backend with Twilio for SMS alerts and OpenWeatherMap API for real-time weather data.
- Features: disaster guidelines, offline SOS, local language support, historical data analysis, rescue request submission, and disaster community support.

### **5. SQL-Based Data Management System**

- Designed a secure Flask-based backend with MySQL and MongoDB integrations, supporting CRUD operations, login authentication, and user tracking.
- Inspired by tools like [create-react-app](#), this tool scaffolded Flask projects with custom credential and database setup options.

### **6. Agriculture-AI Assistant**

- Built a multi-functional platform for farmers that included crop recommendation using Random Forest and pesticide detection using MobileNetV2 with the PlantVillage dataset.
  - Utilized MongoDB for storing farmer logs and integrated support for multilingual access.
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## **CERTIFICATIONS**

- **Coursera:**
  - Fundamentals of Data Visualization with Tableau
  - Introduction to Artificial Intelligence
- **Cisco:**
  - Introduction to Cyber Security
- **Infosys Springboard:**
  - MySQL as Datastore
  - Database and SQL
  - Clustering using Python
  - Artificial Intelligence Foundation
  - Java SE Features
  - HTML and C++ Fundamentals

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## **HACKATHONS & SYMPOSIUMS**

- Winner – Paper Presentation, National Engineering College, Kovilpatti
- Winner – Ideathon, National Engineering College, Kovilpatti
- Finalist – Innovateathon, Rathinam College, Coimbatore
- Participant – Webathon, M.H. Saboo Siddik College of Engineering, Mumbai
- Participant – Hack Era, Sanjay Ghodawat University, Maharashtra

- Participant – Aarush, SRM IST, Chennai
  - Participant – Tect Tatva-M#, Manipal Institute of Technology
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## **WORKSHOPS & PRACTICAL TRAINING**

- “Smuggle the Cake” – Anna University, Coimbatore
  - “Coding Contest” – Coimbatore Institute of Technology
  - “Paper Presentations” – Karpagam Institute, JCT College
  - “IoT using Python and Raspberry Pi” – IIT Madras
  - “5G Network Seminar” – Karpagam Institute of Technology
  - “Full Stack Web Development” – ELSYIUM Academy
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