

MAHALAKSHMI R

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PROFESSIONAL SUMMARY

Final-year B.Tech student in Artificial Intelligence and Data Science with strong expertise in Python programming, machine learning, deep learning, and NLP. Skilled in developing scalable AI solutions and automation using libraries like TensorFlow, Scikit-learn, and spaCy. Passionate about solving real-world problems through data-driven approaches.

TECHNICAL SKILLS

- **PROGRAMMING LANGUAGES:** Python, Java(Intermediate)
- **TOOLS:** Google Colab, Jupyter Notebook, Github
- **LIBRARIES & FRAMEWORKS:** Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, NLTK, PyTorch, OpenCV
- **CORE AREAS:** Machine Learning, Deep Learning, NLP, Data Preprocessing, Model Evaluation

INTERNSHIPS

EDIFY TECHNO SOLUTIONS – Chennai

Sep 2023

- Developed and optimized **Machine learning** models using **Python** on **Google Colaboratory**.
- Developed **AI-driven solutions** through data preprocessing, model training, evaluation and enhanced Decision making.

CODSOFT

Jan 2024

- Completed a 1-month **Data Science** internship with Codsoft, focusing on Data analysis, Machine learning, and Predictive modeling.
- Gained hands-on experience in **Data preprocessing**, **Model building**, and **Performance evaluation** to solve real-world challenges.

TECHVOLT SOFTWARE PVT.LTD – Coimbatore

Aug 2024

- Led a project on **Human Action Recognition using 3D CNN**, improving action classification **accuracy by 90%**.
- Developed and trained the model for **accurate identification of human actions** from video sequences, optimizing performance and enhancing the recognition system.

EDUCATION

BACHELOR OF TECHNOLOGY (Artificial Intelligence and Data Science)

2022 – 2026

RAMCO INSTITUTE OF TECHNOLOGY

CGPA 7.72/10

HSC

May 2022

ST.FRANCIS DE SALES MATRIC HIGHER SECONDARY SCHOOL

Percentage - 78%

PROJECTS

- **Smart Attendance System** – Built a real-time Attendance System using Python and OpenCV with webcam logging.
- **Fake News Detection using AI** – Built a text classification system using vectorization and supervised learning.
- **Pneumonia Detection from X-rays using CNN** – Image classification project using convolutional neural networks.
- **Multilingual Text Classification** – NLP project handling multilingual datasets using spaCy.
- **House Price Prediction & EDA** – Exploratory data analysis with visualizations and predictive modeling.

ACHIEVEMENTS & PARTICIPATIONS

- **HACKATHON WINNER:** Secured **2nd Prize** and won Rs.30,000 at Hack Odyssey, a **24-hour hackathon** organized by **Kalasalingam University** in March 2024.
- **WORKSHOP:** Attended Workshop on **Accelerating NPUs using Hugging Face Models** - Sri Eshwar Thiran 2025.
- **PROJECT EXPO:** Participated in **AI Project Expo 2025** at our college and presented the project **Human Action & Gesture Recognition** using AI, secured **3rd prize** in the competition.
- Achieved **5-Star rating in Python** on **HackerRank**, demonstrating strong programming and problem-solving skills.

CERTIFICATIONS

- Python-Introduction to Data Science and Machine learning – Udemy
- Master course in Artificial Intelligence & Deep Learning – Udemy
- Deep Learning for Developers – Infosys Springboard
- Introduction to Data Science – Cisco Networking Academy
- Natural Language Preprocessing Using spacy – Udemy
- HP LIFE – Data Science & Analytics