

KAMALESH SRINIVASAN

AI / ML ENGINEER

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Location: Vellore, India

PROFESSIONAL SUMMARY

Passionate and self-driven B.Tech student specializing in Artificial Intelligence and Machine Learning, with strong proficiency in data analysis, front-end development, and deep expertise in Machine Learning and Deep Learning. A tech enthusiast committed to solving real-world challenges through innovative solutions, with a constant eagerness to explore and learn emerging technologies. Dedicated to contributing to forward-thinking organizations that prioritize innovation, continuous growth, and meaningful impact.

INTERNSHIPS

Virtual Internship – Generative AI – Skillible | Duration: 6 weeks

Gained hands-on experience with the core concepts and definitions of Generative AI. Developed a solid understanding of prompt engineering techniques and successfully applied them to real-world scenarios. Completed a prompt engineering project that enhanced my problem-solving and creative thinking abilities within the Generative AI domain.

Internship – National Institute of Technology (NIT) | Duration: 2 months

Project: Automated Helmet and Number Plate Detection for Enhancing Road Safety

Contributed to a multi-object detection project aimed at improving road safety through AI-driven surveillance. Implemented machine learning and deep learning algorithms to detect helmets and number plates in real time. Gained experience in teamwork, model design, training, and evaluation, leading to practical insights into deploying AI for real-world safety applications.

PROJECTS

OD and Leave Request System

Developed a web application using HTML, CSS, JavaScript, and SQL to manage OD and leave requests. Created separate interfaces for admin and users to streamline request submissions and approvals. Improved departmental communication and automated record tracking efficiently.

Enhancing Operation Efficiency and Security in Multi-Section Business with Real-Time Analytics

Built an Edge AI system using CCTV for real-time heatmap generation and foot traffic analysis. Implemented shoplifting detection with alert notifications and people counting features. Enhanced resource allocation, security, and data privacy through local processing.

Bone Fracture Detection

Designed a two-step model using ResNet50 and CNN to classify and detect fractures in X-ray images. Categorized bone types into elbow, hand, and shoulder with fracture identification. Enabled accurate and efficient analysis of medical imaging data.

Pattern Recognition in Images

Applied CNN-based classification to detect and analyze unique patterns in visual data. Used machine learning techniques to enhance recognition speed and accuracy. Demonstrated the power of ML in pattern identification across image datasets.

Agriculture Crop Recommendation System

Built a Random Forest-based model to recommend crops using data on soil, weather, and pH levels. Included rich visualizations to provide insights for sustainable farming decisions. Helped identify optimal crop choices for varying environmental conditions.

Resume Analyzer – ResumeLens

Developed a resume scoring tool using NLP and ML (Random Forest, RNN) on engineering resumes. Built a summarization tool with custom NER using Spacy for key information extraction. Deployed via Flask and Streamlit to provide an interactive, user-friendly interface.

PUBLICATION

- Published "Enhancing Operational Efficiency and Security in Multi-Sectioned Businesses with Edge AI through Real-Time Analytics" in 2024 IEEE ICESIC Conference.
 - Published "Automated Helmet and Number Plate Detection – Enhancing Road Safety" in 7th International Conference on Signal Processing, Computing and Control (ISPCC 2k25).
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EDUCATION

B.Tech Artificial Intelligence and Machine Learning Rajalakshmi Engineering College, Chennai	2021–2025 CGPA: 7.7
SSLC The Namakkal Teachers Vidhyaashram Matric HR Sec School, Vellore	2018–2019 87.20%
HSE – Bio-Maths The Namakkal Teachers Vidhyaashram Matric HR Sec School, Vellore	2020–2021 90.92%

SKILLS

Programming Languages: Python , Java	Python Libraries: Numpy, Pandas
Web Development: HTML, CSS, JAVASCRIPT	DataBase Management System: SQL
Languages Known: English(RWS), Tamil(RWS),Telugu(S)	Tools: PowerBi, Excel

COURSES & CERTIFICATIONS

UDEMY - UI/UX Design with Figma	UDEMY - Web Design using HTML,CSS
PREPINSTA - Data Analytics	PREPINSTA - Machine Learning & AI
Industrial robotics programming and design	Arduino & iot applications

ACHIEVEMENTS

Participated in the IDEA PRESENTATION organized by department of AIML at NATIONAL ENGINEER'S DAY-2022 and won the 1st Prize.

VOLUNTEERING EXPERIENCE

Main Coordinator & Event Coordinator, INNOVENTZZ Symposium - Served as the main coordinator for the department symposium, overseeing planning, execution, and team management to ensure the event's success and also as an event coordinator organized an UI/UX designing event.

Media Team Member - DEVS Club - Contributed as part of the Media Team in the DEVS Club, creating posters and promotional materials to enhance the club's outreach and engagement.
