

Joshan Harish J

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<https://joshan-tech-portfolio.lovable.app> | 1/65-1, Antony Street, Muthupettai, Ramanathapuram - 623523

PROFILE

Aspiring and results-driven Computer Science and Engineering graduate from Sathyabama Institute of Science and Technology, specializing in Artificial Intelligence and Machine Learning (AI and ML). Proficient in Python and Java, with hands on experience in developing intelligent systems, AI driven automation, and data analytics. Possesses a strong foundation in (AI and ML) principles, with a passion for solving real world problems using technology. Eager to contribute technical expertise and innovative thinking to a forward-thinking organization in an entry level AI or software engineering role.

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL, HTML, CSS

Core Competencies: Artificial Intelligence, Machine Learning, Deep Learning, AI Agents

Libraries & Frameworks: TensorFlow, Keras, Scikit-Learn, Pandas, NumPy, OpenCV, PyTorch, CNN, Winsound

GUI Development: PyQt5, Tkinter

Developer Tools & Platforms: Jupyter Notebook, Google Colab, Eclipse, Python IDLE, n8n, Microsoft Excel

PROJECTS

TITANIC SURVIVAL PREDICTION USING MACHINE LEARNING

- Developed a predictive model to estimate passenger survival on the Titanic using the dataset.
- Performed data preprocessing by encoding categorical variables such as gender and handling missing values.
- Used mean imputation to fill missing age values, ensuring data consistency for model training.

TRAFFIC MANAGEMENT USING KERAS AND OPENCV

- Developed an AI-based traffic management system using Keras and OpenCV for real time vehicle detection and license plate recognition.
- Implemented intelligent traffic signal control to optimize traffic flow and reduce congestion.
- Utilized deep learning and computer vision techniques to enhance accuracy and efficiency in traffic analysis.

AUTOMATIC PLANT IDENTIFICATION DEEP LEARNING

- Developed an intelligent plant identification system using deep learning and computer vision techniques.
- Designed and trained a Convolutional Neural Network (CNN) with TensorFlow and Keras on a large-scale leaf image dataset.
- Achieved high-accuracy classification of various plant species through efficient model training and optimization.

EXPERIENCE

Machine Learning Engineer Intern

Vcodez

October 2025

Chennai, Tamil Nadu

- Worked with leading machine learning libraries and frameworks such as TensorFlow, Keras, Scikit-learn, and PyTorch to develop and deploy predictive models.

EDUCATION

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (GPA- 8.02)

B.E-Computer Science and Engineering (AI and ML)

Chennai, Tamil Nadu

Sep 2021 – May 2025

INFANT JESUS MATRIC HR SEC SCHOOL (PCT- 83.72)

HSC

Ramanathapuram, Tamil Nadu

June 2019 – May 2021

CERTIFICATIONS

- Data Mining ([NPTEL](#))
- Introduction to Machine Learning ([Corizo](#))
- Introduction to Artificial Intelligence ([Novitech](#))

ADDITIONAL

Languages: Tamil, English

Hobbies: Playing Football, Travelling.