

Harishwar Gopalsamy

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Chennai, Tamil Nadu

Career Objective

Aspiring AI Data Science student with hands-on experience in machine learning, deep learning, and analytics. Passionate about solving real-world problems through data-driven solutions in dynamic environments.

Skills

Programming Languages : Python

Database Management : SQL

Technologies : Machine Learning, Deep Learning, Data Analysis, Data Visualization

Methodologies : Data Preprocessing, Model Deployment, Model Tuning

Tools and Libraries : TensorFlow, Keras, PyTorch, NumPy, Pandas, OpenCV

Projects

Student Emotion Recognition using Deep Learning

- Developed a CNN-based deep learning model to classify student emotions like happiness, sadness, and anger from facial expressions.
- Implemented real-time emotion detection to support personalized learning and boost classroom engagement.

Super-Resolution of Low-Quality CCTV Footage using SwinIR

- Implemented SwinIR to enhance low-resolution CCTV footage, improving clarity for surveillance and forensic use.
- Designed a hybrid pipeline with CNN and Swin Transformer blocks, achieving higher PSNR/SSIM and better recognition accuracy.

Education

Vel Tech Rangarajan Dr. Sagunthala R and D Institute of Science and Technology BTECH IN ARTIFICIAL INTELLIGENCE AND DATASCIENCE CGPA: 7.3	May 2025
V Ramakrishna Polytechnic College, chennai Diploma in Mechanical Engineering Percentage 59	April 2016
P A K Palanisamy Higher Secondary School, chennai SSLC Percentage: 74	April: 2013

Experience

TVS Sundaram Clayton Ltd., Chennai

Trainee Technical Apprentice | 2017 – 2021

Worked as a Temporary Trainee, Technical Apprentice, and NEEM Trainee, gaining hands-on experience in manufacturing operations, CNC machining, and quality control.

Certification

Business Intelligence and Analytics , Issued by NPTEL, Indian Institute of Technology Madras (IIT Madras)	April 2024
Human Computer Interaction , Issued by NPTEL, Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi)	April 2025

Co-Curricular Activities

AI NEXUS:

Coordinated a Paper Presentation Event in Veltech University

TECHTONIC SHIFT 24:

Coordinated a Hackathon Event in Veltech University