

Harish R

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Education

St. Joseph's Institute of Technology

Graduation Year: 2026

B.Tech - Artificial Intelligence and Data Science

CGPA (upto 5th sem): 8.22

Technical Skills

- **Programming Languages:** : Java, Python, SQL
- **Web Development:** HTML, CSS, JS
- **Data Analytics:** : Python library, Power BI, Tableau
- **Tools:** : Figma ,Github, Rapidminer, MongoDB, Knime
- **Skills:** : Problem Solving, Time Management and Teamwork

Professional Experience

Cod tech IT Solutions

Artificial Intelligence Domain Intern (June 2024)

Participated in specialized classes to deepen understanding of artificial intelligence concepts and applications. Completed tasks designed to enhance practical skills and improve performance in AI-related projects.

GDSC GenAI Full Development Club

Member (June 2024)

Participated actively in collaborative projects aimed at achieving milestones set by Google, gaining hands-on experience in data-driven development.

Certifications

- Google Data Analytics - Coursera)
- NPTEL- Python for Data Science - 66%
- Advance JAVA Programming - Scalar
- Altair RapidMiner Machine Learning Professional Certification

Projects

Indian Sign Language Translator:(OpenCV, MediaPipe,NumPy, Pickle)

Sep 2024

Developed a real-time Indian Sign Language (ISL) recognition system using MediaPipe for hand landmark detection and Machine Learning (Decision Tree Classifier) for gesture classification. The system predicts sign language alphabets from hand gestures and displays the corresponding character on the screen.

Handwritten Digit Recognition System:(OpenCV, NumPy, Scikit-learn, Matplotlib)

Dec 2024

Developed a machine learning model to accurately recognize handwritten digits using the MNIST dataset. Utilized Python, TensorFlow, Keras, Pandas, NumPy, and Matplotlib for data preprocessing, model training, and evaluation. Implemented Convolutional Neural Networks (CNN) to achieve high accuracy in digit recognition, demonstrating strong proficiency in deep learning techniques.

Elephant Detection System (YOLOv5, FRCNN, OpenCV)

Jan 2025

Designed a real-time elephant detection system using YOLOv5 and Faster R-CNN to reduce human-elephant conflicts. Achieved 89% accuracy with YOLOv5 and 92% with Faster R-CNN by applying data augmentation, transfer learning (ResNet, EfficientNet), and hyperparameter tuning. Integrated OpenCV for real-time video analysis and implemented an early warning alert system for improved human-wildlife coexistence.