Meghana Kuruva

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About Me

I'm a prefinal-year Computer Science and Engineering student at IIIT Sri City. I'm really passionate about full-stack web development and have recently been exploring AI and machine learning. I enjoy working on real-world projects that challenge me to learn new things, and I'm always looking for opportunities to improve my skills and build innovative solutions.

Education

Indian Institute of Information Technology, Sri City **2023 – Present**
B.Tech in Computer Science and Engineering *CGPA: 8.5*

Ratna Junior College (with Aakash Institute) **2021 – 2023**
Intermediate Education *Board of Intermediate Education*

Good Will High School **2021**
Secondary Education *State Board*

Technical Skills

Programming Languages: C, C++, Python, JavaScript, SQL

Web Technologies: HTML, CSS, React, Node.js, Express.js, MongoDB, REST APIs, JWT Authentication

Databases: MySQL, PostgreSQL

ML / DL: Scikit-learn, PyTorch, Neural Networks, Classification, Regression, Clustering , numpy , pandas

Tools: Git, GitHub, Google Colab, Jupyter , Postman

Projects

Chat Application Live Project
Developed a real-time chat platform with secure user authentication and efficient message handling. Enabled user interface personalization through theme selection, improving accessibility and visual comfort, while ensuring smooth and responsive communication across devices.

Swipe Live Project
Developed a swipe-based matching application with an intuitive and responsive user interface. Implemented smooth card swipe interactions and optimized component behavior to deliver a seamless and engaging user experience.

Chasing Horizons Live Project
Contributed to a travel and tourism platform featuring destination listings, trip planning modules, and responsive design for better user engagement.

AI & ML Projects

Railway Sleeper Crack Detection (Honours Project)
Technology Stack: Deep Learning, Computer Vision, CNNs, Python
Developing a CNN-based system to automatically detect cracks in railway sleepers, aiming to improve safety monitoring and reduce manual inspections.

Heart Disease Prediction
Technology Stack: PyTorch, Neural Networks, Classification
Implemented a neural network in PyTorch to predict heart disease severity from clinical data, using dropout to reduce overfitting and evaluating model performance with accuracy and loss.

CIFAR-10 Image Classificl network for multi-class image classification on the CIFation
Technology Stack: PyTorch, CNNs, Image Processing
Built a convolutional neuraAR-10 dataset. Improved model performance through data normalization, augmentation, regularization techniques, and hyperparameter tuning.

Leadership & Campus Involvement

Core Member — Epoch Club (AI/ML) 2024 – 2025
Indian Institute of Information Technology, Sri City

Core Member — BeatTrippers Dance Club 2023 – 2024
Indian Institute of Information Technology, Sri City