Srinidhi Martha

Hyderabad, Telangana, India
+91 6300072438

mailto: marthasrinidhi16@gmail.com

Linkedin: linkedin.com/in/srinidhi

Github: github.com/srinidhi

PROFESSIONAL SUMMARY

A motivated Computer Science undergraduate with strong front-end expertise and practical back-end knowledge, enabling the seamless development of full-stack MERN applications. Known for adaptability, clean code practices, and delivering user-centric solutions with a passion for blending creativity and technology.

Deeply passionate about AI, ML, DL with active involvement in real-world projects that apply these technologies to solve complex challenges. Committed to continuous learning, innovation, and making meaningful contributions through hands-on development.

EDUCATION

Neil Gogte Institute of Technology
Bachelor's of Engineering (B.E.)
(*2023 - 2027)*

SKILLS

Programming Languages:
- C, C++ (Data Structures & Algorithms)
- Python (OOP, ML/DL, GenAI)
- Java (OOP)
- Kotlin (Mobile App Development)

Web Development:
- Frontend: HTML5, CSS3, JavaScript, Bootstrap, Tailwind CSS, React.js
- Backend: Node.js, Express.js
- Databases: MongoDB
- Tools & Frameworks: REST APIs, SASS, WebGL

Machine Learning & Deep Learning
- Machine Learning: Data Preprocessing, Feature Engineering, Model Training & Evaluation
- Deep Learning: Neural Networks, Image Classification, Transformers
- Frameworks: PyTorch

Version Control & Tools:
- Git, GitHub
- Figma (UI/UX Design)

PROJECTS

CNN based Lake Water Quality Estimation using satellite images - Team Project (2025)
- Developed a Deep Learning model using Convolutional Neural Networks (CNN) to analyze satellite images for assessing lake water quality.
- Achieved over 95% classification accuracy in distinguishing between good and bad water quality, supporting environmental monitoring and sustainability efforts.
- Preprocessed remote sensing data and optimized the CNN architecture for improved performance on binary classification tasks.

FindIt: Online Campus Lost & Found Portal - Individual Project (2025)

- Developed a full-stack web application using the MERN stack to streamline the lost and found process within college campuses.
- Designed a responsive and accessible frontend with React.js, Tailwind CSS, and Framer Motion, supporting dark/light modes and dynamic components.
- Implemented secure, role-based authentication and cloud image uploads using JWT, Express.js, MongoDB.

Digitron – Handwritten Digit Recognition using Deep Learning - Individual Project (2025)

- Built a fully connected neural network from scratch in Python without relying on any external ML libraries.
- Manually parsed and preprocessed the MNIST dataset from binary files for complete data pipeline control.
- Achieved high accuracy in digit classification while demonstrating core deep learning concepts, ideal for educational and research purposes.

TALQS: Transformer-based Architecture for Legal Question Answering and Summarization - Team Project (2025)

- Developed a dual-model Transformer architecture using pretrained models with PyTorch for abstractive summarization and legal question answering.
- Built a MERN stack web interface for real-time legal query interaction, integrated with TTS (Text-to-Speech) for voice-based accessibility.
- Utilized real Indian legal court judgments extracted from raw text files, enabling domain-specific accuracy and practical usability for lawyers, researchers, and the public.