NAGA KRISHNA SAI PRAKHYA

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Computer Science and Engineering, NGIT LinkedIn Portfolio GitHub

EDUCATION

Industry Ready Certification in Full-stack Development **2022 - Present**
Nxtwave Disruptive Technologies

Bachelor of Engineering in Computer Science **2022 - 2026**
Neil Gogte Institute of Technology OU, Hyderabad CGPA: 8.94/10

Higher Secondary (Physics, Chemistry, Maths) **2020 - 2022**
Narayana Jr College, Hyderabad 98.6%

Secondary School Certificate **2019 - 2020**
St. Anthony's High School, Hyderabad CGPA: 9.8/10

TECHNICAL SKILLS

Languages	C, Java, HTML/CSS, JavaScript, TypeScript*, Python, SQL
Frameworks	Next.js, React.js, Express.js, Tailwind CSS, Flask, Redux*
Tools	Git/GitHub, VS Code, GitHub Actions, Google Colab
Databases	MongoDB, SQLite*, PostgreSQL*
Machine Learning & AI	ANN, CNN, Generative AI

WORK EXPERIENCE

Carvia **Jan 2025 - March 2025**
Full-stack Developer *Remote*

- Developed a full-stack web application using the MERN stack and TypeScript with Tailwind CSS.
- Designed and implemented RESTful APIs with Node.js and Express.js for seamless data integration.
- Integrated JWT-based role authentication to enhance security and user access control.

PROJECTS

Automated Redaction System [redacted]

- Built a Next.js and TypeScript-based redaction tool with MongoDB integration to securely store and process sensitive data in images and PDFs.
- Developed a U-Net-based image segmentation model using Keras to identify and mask logos and signatures in images (referenced from U-Net Research Paper, 18 May 2015).
- Fine-tuned a transformer-based Named Entity Recognition model to identify sensitive content in text and images.

Facial Verification System **January 2024**

- Created a facial verification system using Siamese Neural Networks with Keras and TensorFlow.
- Preprocessed a dataset of facial image pairs to train and optimize the model for identity matching.
- Achieved 92% accuracy in verification tasks through hyperparameter tuning.

Optimization of Doctors Availability **September 2023**

- Developed a MERN stack based hospital scheduling system with a QR-based attendance feature to optimize doctor appointments and track presence.
- Used logistic and linear regression models to predict patient diseases, allocate slots, and estimate waiting times.
- Enabled automated scheduling, conflict minimization, and real-time doctor suggestions based on symptoms and slot availability.

EXTRACURRICULAR ACTIVITIES & CERTIFICATIONS

Deloitte Australia Data Analytics Simulation: Completed data analysis and forensic tech simulation, built a Tableau dashboard, and classified data in Excel. **February 2025**

Hackathon Winner: Secured 1st place in a hackathon organized by NGIT for developing an e-commerce platform integrated with Agentic AI. **December 2024**

Project Expo Winner: Achieved 1st place for presenting the project (Optimization of Doctors Availability to Reduce Patient Wait Time) at NGIT Techtonic Event. **April 2024**

Smart India Hackathon: Awarded 2nd Runner-Up in the internal round of the prestigious Smart India Hackathon at NGIT. **September 2024**

National-Level Hackathon: Competed in HackXcelerate at CBIT, Hyderabad, demonstrating problem-solving and teamwork skills. **April 2024**

Event Organizer: Planned and executed cultural events in school and college, highlighting organizational and leadership abilities. **2022 - Present**

OTHER WORK

Developed a Convolutional Neural Network (CNN) using NumPy to demonstrate forward and backward propagation in CNNs (along with Pooling and Activations) and trained it to classify MNIST digit images.

Explored the working of Language Models and Transformers; studied U-Net model for object detection.

Implemented Retrieval-Augmented Generation (RAG) to query documents, enabling efficient information retrieval and response generation.

ADDITIONAL INFORMATION

Skills marked with an asterisk (*) indicate ongoing learning: ANN (Artificial Neural Networks), CNN (Convolutional Neural Networks), RAG (Retrieval-Augmented Generation), NGIT (Neil Gogte Institute of Technology)

GitHub Repo Hyperlinks LinkedIn Profile Hyperlink

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