

SHAURYA MANI TRIPATHI

+91 9454604042 shaurya.deoria@gmail.com [LinkedIn](#) [Github](#) [CodeForces](#) [LeetCode](#)

EDUCATION

Indian Institute of Information Technology, Guwahati

Bachelor of Technology, Computer Science & Engineering

Aug 2022 - Present

CGPA: 8.91/10.00

Aatmdeep Vidyalaya, Gorakhpur

Class XII: CBSE Board

May 2021

Percentage: 94.0%

Gurukul Mission School

Class X: CBSE Board

May 2019

Percentage: 96.8%

PROJECTS

Draw with Fourier [🔗](#) | Technologies: Go API, Docker, Git CI/CD, HTML5 Canvas, JavaScript

May 2024

- Developed a web application that transforms simple drawings into mathematical recreations using Fourier Series
- Implemented a frontend with interactive HTML5 Canvas and JavaScript for animations and UI controls
- Built a Go API backend handling complex Fourier transformations of drawing data
- Containerized with Docker for seamless deployment and distribution

OS-AI: Full Control Autonomous Any Task Handling AI agent [🔗](#) | Technologies: Go, RESTful APIs

May 2024 – Present

- Designed a backend toolkit providing file system and terminal access through RESTful APIs
- Implemented session-based management with isolated working contexts and state tracking
- Created secure terminal API with command execution, session persistence, and output streaming
- Developed complete file operations API with CRUD, directory management, and batch operations

PilgrimAI [🔗](#) | Technologies: LLM, GCP, Flask, Python, Flutter, Dart

Dec 2023 – Feb 2024

- AI-powered chatbot specifically designed for providing accessible mental health support without stigma
- Achieved 40% reduction in response generation latency through RAG and Supervisor Technique optimization
- Implemented a cross-platform mobile application using Flutter and Dart

CartGenie [🔗](#) | Technologies: LLM, RAG, Langchain, Flask, Python

Jul 2024 – Aug 2025

- AI-driven e-commerce platform for intuitive shopping experience
- Improved search relevancy by 300% using hybrid SQL and vector database architecture
- Spearheaded development of AI customer service bot for Walmart's Sparkathon

MNIST Classification Model [🔗](#) | Technologies: TensorFlow, Computer Vision

Oct 2024 – Oct 2024

- Achieved 99.7% accuracy in handwritten character detection within 10 seconds using 7-GPU cluster
- Attained 91% accuracy on challenging MNIST-C dataset (Google benchmark: 97.73%)

College Management System [🔗](#) | Technologies: SQL, Flask, REST API, Python

Jan 2024 – Mar 2024

- Built comprehensive college management system with secure DBMS integration
- Implemented normalized database schema for optimal query performance
- Developed secure facial recognition-based attendance system with anti-proxy measures

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, Java, Dart
- **Web Technologies:** React.js, Express.js, Flask, Django, RESTful APIs, HTML, CSS, JavaScript
- **AI & ML:** Dabbled with TensorFlow, Pytorch, Scikit-learn, Langchain, Anaconda
- **Database Systems:** PostgreSQL, MySQL, Vector Databases
- **Cloud & DevOps:** Dabbled with Google Cloud Platform, AWS, Docker, Podman, Node, Git
- **Mobile Development:** Dabbled with Flutter, Android Studio
- **Data Analysis:** Pandas, NumPy, Matplotlib, Jupyter Notebooks
- **Development Tools:** VS Code, JetBrains IDEs, Linux, SSH

COURSEWORK

- Data Structures & Algorithms
- Object-Oriented Programming
- Cloud Computing
- Theory of Computation
- Operating Systems
- Computer Networks
- Database Management
- Discrete Mathematics

CERTIFICATIONS & ACHIEVEMENTS

Data Structures and Algorithms in Python - IIT Madras (Top 5% among 10,000+ participants)

Machine Learning Specialization - Stanford University and DeepLearning.AI (Coursera)