SHAURYA MANI TRIPATHI

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EDUCATION

Indian Institute of Information Technology, Guwahati	**Aug 2022 - Present**
Bachelor of Technology, Computer Science & Engineering	*CGPA: **8.91**/10.00*
Aatmdeep Vidyalaya, Gorakhpur	**May 2021**
Class XII: CBSE Board	*Percentage: **94.0%***
Gurukul Mission School	**May 2019**
Class X: CBSE Board	*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

Gemini Coder: Claude Coder alternative ↗ | *Technologies: Google GenAI, written without any framework* **May 2024 – Present**
- A sophisticated Claude-Coder alternative powered by Google Gemini, built entirely from scratch with zero external frameworks. Features an intelligent file-context system , CLI based AI assitant.
- Built CLI with Google Gemini API for in-terminal generative AI.
- Developed modules for local file system operations and interaction.
- Implemented CLI session management for isolated contexts and state tracking.
- Enabled secure local terminal command execution within the CLI.
- Provided CLI-accessible file operations: CRUD, directory management, and batch processing.

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
- Designed a App, for assitance on the go

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
- Operating Systems
- Object-Oriented Programming
- Computer Networks
- Cloud Computing
- Database Management
- Theory of Computation
- 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)