

SHAURYA MANI TRIPATHI

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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

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 – Present

- 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

Jun 2024 – Jul 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:** 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

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|--------------------------------|-------------------------------|-----------------------|-------------------------|
| • 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)