

Shivanshi Tripathi

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EDUCATION

Maharishi University of Information Technology

Bachelor of Computer Applications (BCA) in AI & Computer Science — GPA: 8.5

Lucknow, India

2024 – 2027

IBM AI Engineering Professional Certificate

Machine Learning, Deep Learning, and AI Systems

Online

Completed

EXPERIENCE

Cogerphere AI Labs

Co-Founder, AI Researcher & Backend Microservices Developer

Lucknow, India

6 Months

- Developed scalable backend microservices using Node.js, Express, and PostgreSQL for AI-driven systems
- Engineered AI pipelines leveraging LLMs, fine-tuning, and intelligent automation workflows
- Built real-time systems using WebSockets for efficient data streaming and communication
- Deployed production-ready applications on AWS with optimized database handling using Prisma and MongoDB
- Contributed to Meridian 0.1 Research Model, focusing on AI architecture, evaluation methodologies, reasoning systems, and local deployment for researchers
- Collaborated on multiple production applications emphasizing scalability, modular design, and performance

PROJECTS

OpenBentt | AI, LLMs, Context Engineering, System Design | GitHub

- Contributed to the creation and development of OpenBentt, an AI-powered research and knowledge intelligence platform
- Helped integrate AI models, local GGUF models, and API-based model access into the application stack
- Worked on context engineering to improve retrieval quality, response relevance, and model behavior
- Contributed to the system design of AI workflows and application architecture for scalable deployment

Clox | AI, Agentic-harness, Multi-Chain, LLMs

- Built an AI-powered platform to generate production-ready Websites-smart contracts from natural language inputs
- Implemented automated security checks and fail-safe architecture to enhance contract reliability
- Enabled seamless deployment across Ethereum, Polygon, and Base networks
- Designed intelligent prompt pipelines for optimized and secure code generation

Meridian 0.1 Research Model | AI Research, LLMs, Local Deployment

- Contributed to the research and development of Meridian 0.1, a lightweight local research model designed for researchers
- Focused on building a model that can run efficiently on smaller GPUs and devices
- Worked on improving capabilities for LaTeX writing, thesis drafting, proofreading, and research assistance
- Supported research for web-grounded knowledge access and better academic writing workflows

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript

Python Expertise: File Handling, Error Handling, Networking, Database Integration, NumPy, Pandas, Matplotlib, Scikit-learn

AI/ML: Machine Learning, Supervised & Unsupervised Learning, Classification, Clustering, Linear Regression, Logistic Regression, Reinforcement Learning, LLMs, Fine-tuning

Frameworks: React, React Native, Node.js, Express

Databases: PostgreSQL, MongoDB, MySQL

Tools & Technologies: Git, WebSockets, Prisma, Postman, AWS Deployment

ACHIEVEMENTS

Selected participant in Smart India Hackathon, contributing to an AI-driven solution

Contributed to the creation and development of OpenBentt, an open-source AI research platform

Contributed to Meridian 0.1 Research Model, supporting local AI reasoning research and evaluation initiatives

Active member of Lucknow DAO and Lucknow AI Labs communities