

Aditya Gupta

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EDUCATION

Parul University

B.Tech in Computer Science and Engineering

Gujarat, India

Sept 2021 – April 2025

TECHNOLOGIES

Technical Skills:

Machine Learning, Deep Learning, NLP, GenAI, Fine-tuning, RAG, Agentic AI, MCP, LangChain, LlamaIndex, LangGraph, CrewAI, OpenAI Swarm, LangSmith

Languages & Frameworks:

Python, TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Flask, FastAPI, SQL, HTML, CSS3, Pydantic, Shell

Tools & Platforms:

AWS Services (AI), Linux, Docker, Git, GitHub, GitLab

Soft Skills:

Communication, Analysis, Reporting, Presentation, Debugging

EXPERIENCE

AI Developer, Metapercept Technology

June 2025 – Present

- Contributed to metrAI, an AI-driven platform using Hybrid RAG (Vector DB + Knowledge Graph) for multi-domain intelligent retrieval
- Implemented an AWS SQS-based asynchronous pipeline for file processing and OpenSearch indexing
- Integrated Mesh ontology to build structured knowledge graphs for enhanced semantic reasoning

AI Intern, Vision Infotech

Dec 2024 – May 2025

- Developed an AI-powered mock paper generation system using RAG for NEET and JEE students
- Conducted trend analysis of exam questions using the ARIMA algorithm to identify patterns over the years

Research Intern, University of West London

Dec 2023 – April 2024

- Pioneered text-to-image generation using custom stable diffusion techniques in research
- Contributed to writing research papers and reports

PROJECTS

Real-Time Filtering of Abusive Language for Social Media Applications | [Link](#)

Aug 2024 – Sept 2024

- Developed a platform that connects seamlessly to users' Instagram accounts and automatically detects and removes abusive comments
- Utilized NLP techniques and a BERT fine-tuning model for a specific Hinglish and English dataset

MetaConverse Bot | [Link](#)

Sept 2024 – Oct 2024

- Developed an AI-powered chatbot delivering intelligent, context-aware responses across multiple domains using advanced NLP and transformer-based models.
- Integrated a Retrieval-Augmented Generation (RAG) architecture to enable real-time, accurate, and up-to-date knowledge-driven interactions.

CERTIFICATES

Microsoft Certified: Azure AI Fundamentals | [CERTIFICATE](#)

Jul 2024

NPTEL Certification: Introduction to Machine Learning | [CERTIFICATE](#)

Jun 2024

NPTEL Certification: Software Engineering | [CERTIFICATE](#)

Nov 2023

Deep Learning AI: Machine Learning Specialization | [CERTIFICATE](#)

Sept 2023

Microsoft Certified: Build a NLP Solution using Azure AI Language | [CERTIFICATE](#)

Feb 2023