

Abhishek Kumar Gupta

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EXPERIENCE

- **Summer Intern, Data Analytics Lab** IIIT Allahabad (IIITA)
May 2025 – July 2025
 - Worked under Dr. Manish Kumar on Alzheimer's disease prediction using federated learning.:
- **Amazon ML Summer School 2025** Remote
Aug 2025 (Current)
 - Selected among the top 3,000 out of 60,000+ applicants for Amazon's ML School.:

ACHIEVEMENTS

- **LeetCode**: Solved 585+ problems; Current Rating: 1530 *Username: iamabhi1373*
- **Codeforces**: Contest rating: 1539 (max. specialist, 1539); Best Global Rank: 664 *Username: iamabhi1373*
- **CodeChef**: Rating: 1470 (2STAR); Global Ranks: 370 (best), 1404, 1583 *Username: iamabhi1373*
- **2× Ideathon Winner + 1× CodeRelay**: Awarded 12,500 for innovative ideathon, 2,500 in another tech hackathon, and 1,000 in CodeRelay competition.

PROJECTS

Deep Learning-based OCR System for Handwritten Text Recognition and Language Translation (GitHub)

Python, TensorFlow, Flask, API, Streamlit

- Implemented an OCR and translation pipeline, increasing handwritten text recognition accuracy from 81% to 97.33% using cloud-based Vision OCR. Deployed via Streamlit with Google Translation API for real-time language translation.

Alzheimer's Disease Prediction using Federated Learning (GitHub)

Python, Enhanced-CNN, Streamlit, Hugging Face Spaces

- Developed federated learning model for Alzheimer's disease prediction using Enhanced CNN technique across 6 clients for 25 rounds, across IID and non-IID datasets achieving 94.6% accuracy while preserving patient privacy. Deployed using Streamlit and hosted on Hugging Face Spaces for accessible medical diagnostics.

Gmail Automation Agent

Python, Gemini API, Gmail

- Developed a Python-based tool integrating **Gemini API** with **Gmail** to automatically generate and send personalized emails. Implemented features like customization and bulk emailing to reduce manual effort.

TriLLM Arena - AI Model Comparison Platform (GitHub)

OpenAI API, DeepSeek API, Gemini API

- Built a modern web app enabling **real-time comparison** of responses from three leading AI providers (OpenAI, DeepSeek, Gemini) through a unified interface.
- Focused on performance, responsive design, and intuitive user experience with parallel API calls and token usage tracking.

Restaurant RAG Application

Python, Streamlit, Gemini API, RAG, Pinecone, LLMs

- Developed an interactive app for managing restaurant menus and customer feedback with **Retrieval-Augmented Generation (RAG)**.
- Implemented custom vector search using Pinecone to enable intelligent recommendations and query-based insights.

Portfolio: abhishek-portfolio

EDUCATION

Manipal University Jaipur

B.Tech (Hons) in Computer Science Engineering (IoT Specialization)

Jaipur, India

2022-2026