




# UDAY GUPTA


AI-ML Engineer (Gurugram, Haryana)


An ardent AI developer striving to be a full end-to-end contributor to the field. From GenAI bots to AI-agents, data engineering solutions to data-driven dashboards, sentiment analysis or object detection, or MLOps with Cloud, I steadily grind and accord to all that comes with AI (ML/Data Science)

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## Skills

### Foundational Programming

- **Python**, Java, JS, DSA, OOPs
- Git, GitHub, SQL

### Full-Stack Development

- HTML, CSS
- MERN

### Machine Learning

- **Tensorflow**, OpenCV, NLTK
- HuggingFace, Pinecone
- **Google Cloud Platform**

### Soft-Skills

- **Leadership, Teamwork** (See "Accomplishments" section)
- **Digital literacy, Problem-solving** (See "Projects")
- Communication skills (**Eng, Hindi**)

### Currently Learning

- ZenML, **MLFlow**, **Tableau**, **Power BI**

## Accomplishments

### Mercer Mettl Hackathon

- First runner-up
- Rs.10,000 (Amazon Credits)

### Smart India Hackathon

- Team Lead
- Top-5 teams: internal hack

### Google Developer Student Clubs

- ML Co-Lead
- Lead 200 participants for GCP Cloud Campaign
- Assisted 80 participants for tier-1 reward

## Education

- **Bachelor of Technology, Artificial Intelligence and Machine Learning** 2021 - 2025  
CGPA: **9.13**

University School of Automation and Robotics,  
Surajmal Vihar, New Delhi (GGSIPU East Campus)

- **Intermediate** 2021  
NK Bagrodia Public School, Sector-4, Dwarka, New Delhi  
Score: **96.4%**

## Experience

- **ML Intern** Jun 2024 - Aug 2024, Online  
ARCEdtech Solutions Pvt. Ltd.
  - **Lead** the team and built an **RAG Chatbot "Treebo"** (link) educating users on 17 SDGs
  - **15 SDG PDFs as RAG input**, response time: **3-4s** with **Gemini 1.5 Flash**
  - Tech Used: - **LangChain**, Gemini Embeddings, **Kubernetes**  
- **Vercel deployment**
- **ML Intern** Aug 2023 - Oct 2023, Online  
Elint Data Pvt. Ltd.
  - Domains: NLP: **RAG bots (2)**, **BERT**; Vision: **Object Detection**
  - Collaborated on **Quantized LLM (4,8 bit)**, response time accelerated: **2 mins -> 20s** for **RAG bot (PDFs, URLs)**, **BERT embeddings**
  - Traffic Detection via **YOLOv5 (mAP>90%)**
  - Tech Stack: - **Hugging Face**, **Tensorflow**, **FastAPI**, **LLMs – Llama2, Falcon**  
- **Docker**, **Azure Machine Learning**, **YAML** (1 streamlit app)
- **Web Development Intern** Jul 2022 - Aug 2022, Online  
The Letude
  - Designed and developed **3 front-ends** (login page, travel directory, memes app), **assisting in a team of 4**.
  - Tech Stack: - **HTML**, **CSS**, **JS**, **ReactJS**, **NodeJS**, **Git**, **Github**  
- **RestAPI**, **Vercel deployment**, **Github Pages** deployment

## Projects

For viewing more of my projects: [links\(Website, Codes\)](#)

- **MockBit (link)** – a GenAI chatbot leveraging fine-tuned Llama2 for tailored interview preparation
  - o Quantized (4,8 bit) LLMs, HuggingFace Embeddings, **HF-Spaces** for fine-tuned Llama2, response time- **10-15s**
  - o Tech: Langchain, QLoRA, Azure deployment, NextJS
- **DreamSound Studio (link)** - Generate sounds with NST and Google's DeepDream (Inception V3)
  - o Developed **CNNs (5 style, 1 content layer)**, **300 training iters**
  - o Tech: Tensorflow (CNNs), Librosa, Gradio – for UI
- **Brain Tumor Detection (link)** – Custom CNN, Transfer learning on VGG19, ResNet50 for tumor detection
  - o **4 classes, 3264 images**, data augmentation, dropout(0.5)
  - o Tech: Tensorflow, Gradio - UI