



UDAY GUPTA


AI-ML Engineer


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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

Skills

Foundational Programming

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

Full-Stack Development

- HTML, CSS
- MERN

Machine Learning

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

Soft-Skills

- **Leadership, Teamwork** (See “Accomplishments” section)
- **Digital literacy, Problem-solving** (See “Projects”)
- Communication skills (English, Hindi)

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

Projects

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

- **BookPal-Llama2 (link)** - a guide to query about books PDFs or URLs using RAG in LLMs
 - o Quantized (4,8 bit) LLMs, HuggingFace Embeddings, **5-10 PDFs** as RAG input, response time- **10-15s**
 - o Tech: Langchain, QLoRA, Azure deployment
- **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