

# AKASH JHA

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## EDUCATION

### Indian Institute of Technology Madras

Bs Data Science and Applications

January 2022 - Present

**Expected Coursework:** DSA, ML/DL, DBMS, Maths, Statistics, Python, Java, NLP, Computer Vision, Speech Technology, App/Web development, Computer architecture, Software Testing, LLMs, Big data, SDLC

## EXPERIENCE

### Carbon Compete

June 2024 - Present

*SDE(Full stack/AI) -Intern*

- Carbon Compete is a French startup focused on helping clients by enabling them with **enterprise-grade AI-driven sustainable supply chain resilience, traceability, and transparency**. It is founded and run by former directors and veterans from Microsoft and Oracle.
- Owning the entire software and AI infrastructure**, overseeing its design and development to ensure robust, scalable, and efficient solutions for our AI-driven enterprise SAAS platform .
- Worked towards creating domain specific LLMs( **CarbonGPT**), distributed multi-agentic AI and integrating it to our platform ( **CarbonIntel**) to automate LCAs and publish EPD reports at scale. By this we have reduced the LCA cost from 100k-200K Euros per product and 6 months time by **95+ percent** and **reduced timeline by 80 percent** in our mission to democratise decarbonisation
- Tech Stack: React, Nodejs, Azure, GPT, MUI, AI, LLMs, Vector Database, Kubernetes

### Hotelzify

February 2024 - April 2024

*SDE(Backend/AI) -Intern*

- Hotelzify is the fastest-growing startup in the domain of self-serve website development and booking management platforms for hotels having a clientele of **5000+** hotels and serving about **100000+** customers a month.
- Owned the full backend lifecycle of its core feature named United Chat Interface**, from database design to API development and socket implementation. Integrated direct messaging from Google, Instagram, Facebook, WhatsApp, and Crisp using Google Communication and Meta Graph APIs. Later, had to design and integrate an **AI bot powered by advanced Language Models and RAG methods** to assist owners in managing communications
- Also led the project to integrate offerings of our hotels on the ONDC ecosystem. **This project also made our company, one of the first seller apps for the hotel industry on ONDC.**
- Tech Stack: MySQL, MongoDB, WebSockets, Rest APIs, Graph APIs, AI, LLMs, Vector Database, AWS

### Rubixe

September 2023 - February 2024

*Data Science Consultant -Intern*

- Delve into data to extract meaningful insights for projects through EDA on multiple datasets. Used multiple libraries and tools like matplotlib, seaborn, PowerBI, and Tableau for creating visualizations.
- Tech Stack : Python, Flask, Pandas, Numpy, Sckit Learn, TensorFlow, Neural Networks, PowerBI, Tableau, AWS

## PROJECTS

### Wanderbuddy

Ongoing

- An AI agentic framework for people with wanderlust. So give the boring planning things a rest and assign it to our Wanderbuddy. Currently having traction from real-time users on the platform.
- WanderBuddy's complex AI architecture automates travel planning by analyzing preferences, offering personalized itineraries, and allowing customization at every step. Its collaborative features enable users to co-plan trips with friends or family, ensuring a tailored and seamless travel experience

### Full Stack AI Contact Center

Ongoing

- Most companies lack proper infra for customer support due to budget constraints. To help mid and small-level companies have great customer experience a Full stack AI contact center was created that employs advanced NLPs, computer vision, data science in web apps.
- Created an AI agent using multi LLMs and a MERN-based web interface for customers to talk to agents. In future, this project will include app monitoring, quality monitoring, reinforcement learning, escalating relevant queries, and CV classification techniques.

## SKILLS

Programming Languages:	Python, C++, C, Javascript
Database Management Systems:	MySQL , MongoDB, Pinecone, Qdrant, Postgres SQL
Cloud Computing:	GCP, AWS, netlify
Web Development:	React, Express, Flask, Nextjs, Prisma, Typescript
Tech Stack:	Langchain, OPENAI, Hugging Face, Docker
Libraries / Frameworks:	Pandas, Numpy, Seaborn, Tensorflow, Pytorch, XGBoost, scikit-learn, OpenCv, PIL
Machine Learning:	Regression, Classification, Clustering, Neural Networks, Deep Learning, LLM
Soft Skills:	Public Speaking, Leadership

## ACHEIVEMENTS/CERTIFICATES

- Lead a team to top 10 in DataHacks at IIT Madras where more than 100 teams participated.
- Part of PR team of IITM's fest called Paradox and Editorial lead for Cosmos, the tech society of IITM BS.
- Certified Data Scientist by Nasscom
- GEN AI with LLMs by AWS