

AKASH SHARMA

Indian Institute of Technology Madras (India)

Guwahati, Assam, India

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EDUCATION

Program	Institution(Board)	%/CGPA	Year
<i>B.S. (Data Science & Applications)</i>	Indian Institute of Technology Madras <i>Chennai, Tamil Nadu</i>	8.48/10	2022-26
<i>Higher Secondary Certificate (Science)</i>	SBOA Public School (CBSE) <i>Guwahati, Assam</i>	73.60%	2017
<i>Secondary School Certificate</i>	Suderashan Public School (SEBA) <i>Guwahati, Assam</i>	76.50%	2015

EXPERIENCE

AI Engineer Intern

Feb. 2025 – Present

Krsta Consultancy Services

Chennai, Tamil Nadu

- Deployed and managed scalable APIs using GCP Cloud Run and API Gateway, and utilized Supabase for both cloud storage and database management to support backend services.
- Developed advanced predictive models leveraging historical market data for real-time, automated decision-making using robust backend integrations.
- Engineered workflows to extract, embed, and generate concise summaries from PDFs, text, and images, storing the resulting embeddings in vector databases, while ensuring cost-efficient operations.
- Designed and implemented end-to-end pipelines, including user interfaces for comprehensive testing and validation of applications.

LLM Engineer Intern

July 2024 – Jan. 2025

Sudha Gopalakrishnan Brain Centre, IIT Madras

Chennai, Tamil Nadu

- **NeuroVoyager Project:** Developed LLM-based applications—including a Conversational Query Engine(NeuroMiner), NL2SQL system, and AI agents—for neuroscience data exploration and analysis. Leveraging Codestral-22B, Nv-embed-v2, and Llama-3.3-70B-Instruct, I enabled iterative self-querying and natural language translation into multi-database operations. The solution consolidates chain-of-thought reasoning for streamlining database querying, graph exploration, and statistical analysis on the Human Brain Project.
- **GliaCoder Project:** Developed an AI assistant integrated into Code4Humanity to streamline code generation, code completion, debugging, and brain image exploration for neuro-researchers and developers. Implemented as a Chrome extension, web app, and JupyterLab extension, the tool leverages advanced NLP techniques and the HBP codebase for efficient problem-solving.

PROJECTS

Predicting the Success of Bank Telemarketing Campaigns | *Machine Learning*

Oct. 2024 – Nov. 2024

- Utilized LightGBM, Gradient Boosting, and XGBoost to predict customer responses in a Kaggle bank telemarketing dataset. Applied imputation, One-Hot Encoding, and Standard scaling. Evaluated using F1 score (average macro) to ensure balanced accuracy, revealing insights for improved customer targeting and segmentation.

Analyzing the Business Model of a Jockey Outlet | *Business Data Management*

Sep. 2024 – Oct. 2024

- In this capstone project, I conducted a comprehensive analysis of SR Associates, an exclusive Jockey outlet in Guwahati, to address key business challenges impacting profitability and growth. By examining sales data and customer behavior, I provided data-driven solutions to optimize inventory management, reduce stock-outs, and increase foot traffic.

Jiggly : Music App | *Flask, Vuejs, REST API, Redis, Celery.*

Mar. 2024 – Apr. 2024

- Jiggly is a multi-user music streaming web application. This app is built on Vue.js framework for client-side and Flask for server-side. Additional features include daily reminders and caching using redis and celery, and token-based authentication using JWT.

TECHNICAL SKILLS

- **Languages:** JavaScript, Python, Bash, SQL
- **Database Systems:** MySQL, Neo4j, PostgreSQL, SQLite3, Vector DB
- **Frameworks:** React, Flask, FastAPI, Vue.js, Bootstrap
- **Libraries:** pandas, NumPy, Matplotlib, scikit-learn, HuggingFace
- **Web Technologies:** CSS, HTML, WebSocket, REST API
- **Operating Systems:** Windows, Linux
- **Tools:** Docker, Git, Microsoft Office, VS Code, Jupyter Lab/Notebook
- **AI Techniques:** Retrieval-Augmented Generation (RAG), GraphRAG, NLP, AI Agents, Generative AI, Prompt Engineering
- **Cloud Platforms:** GCP (Cloud Run, API Gateway)

CERTIFICATES

- Generative AI Certified Professional, Oracle
- Azure AI Fundamentals, Microsoft
- Applied Accelerated Artificial Intelligence, NPTEL
- Data Mining, NPTEL
- SQL (Advanced), HackerRank
- TCS iON Career Edge - Young Professional, TCS

POSITION OF RESPONSIBILITY

Group Leader

Sep. 2023 – Aug. 2024

Bandipur House, IITM BS Degree

- Communicated effectively with members to provide timely course updates, deadline reminders and academic support, arranged meetings between group members, and participated in the house’s decision-making and event planning.