# SATHYAM A

Bengaluru, Karnataka

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## Education

**Indian Institute of Information Technology, Sri City**                    **November 2022 – Present**
*Bachelor of Technology in Computer Science*                                *Chittoor, Andhra Pradesh*

## Relevant Coursework

- Data Structures
- Algorithms
- Database Management
- Software Engineering
- Data Analytics
- Machine Learning
- Deep Learning
- Generative AI & LLMs

## Work Experience

**Kreesalis**                                                               **May 2025 – Present**
*AI Software Developer*                                                     *Bengaluru, Karnataka*

- Built an agent system with RAG and Model Context Protocol (MCP) that facilitated real-time context-aware database interaction and lowered manual data retrieval efforts by 40%.
- Designed a secure, schema-constrained domain agent that ensured compliant access to financial data, resulting in a 30% drop in invalid or failed queries.
- Optimized multi-agent context handling and retrieval logic, leading to a 35% reduction in response time and 50% increase in query resolution accuracy.

**Emphas AI**                                                              **November 2024 – January 2025**
*Generative AI Developer*                                                   *IIIT Sri City, Andhra Pradesh*

- Partnered with one of our hackathon sponsors during the techno-cultural fest, fulfilling their request for a technical contribution in return for sponsorship support
- Collaborated with their team to build a Retrieval-Augmented Generation (RAG) pipeline for extracting structured information from 50 Purchase Order documents
- Led coordination efforts and experimented with dense, sparse, and hybrid retrieval methods—achieving a 35–40% improvement in extraction accuracy while enhancing communication and project management skills

## Personal Projects

**Intrusion Detection System Using Deep Learning | *Machine Learning, Pytorch***    **January 2025 - Present**

- Developed an Intrusion Detection System using PyTorch achieving 98.1% accuracy on the CICIDS2017 dataset
- Engineered optimal feature selection reducing dimensionality by 65% through PCA, maintaining F1 scores of approximately 0.98
- Implemented an ANN model reducing false positives by 87% while decreasing threat detection time by 63%

## Technical Skills

**Programming Languages & BI Tools:** Python, SQL, Power BI, Tableau
**Python Frameworks:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Pydantic, FastAPI, PyTorch
**Generative AI Technologies:** LangChain, LangGraph, LlamaIndex, Hugging Face, Transformers
**Agentic AI Frameworks & Principles:** Agno, Autogen, Crew AI, Model Context Protocol, Google ADK, A2A
**Deployment and Containers:** Microsoft Azure, Github Actions, Dockers
**Product Management Tools:** JIRA, Huly, Notion, Miro
**Soft Skills:** Communication, Management, Teamwork, Active Listening, Leadership

## Leadership & Activities

**Matrix - Data Science Club**                                             **April 2024 – June 2025**
*Club Lead*                                                                 *IIIT Sri City, Andhra Pradesh*

- Led a core team of 12 members and mentored over 250 students in Data Science, ML, and Generative AI
- Conducted 15+ technical sessions on core Data Science concepts, ML workflows, and emerging trends in Generative AI
- Organized large-scale hackathons and events impacting 500+ participants during the college's annual techno-cultural fest