# Amit Shukla

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## EDUCATION

**International Institute of Information Technology (IIIT Hyderabad)** — Telangana, India
*Master Of Science in Computer Science Engineering* — *Jan 2025 – Present*

**Indian Institute Of Science Education and Research** — Bhopal, India
*Bachelor of Science in Electrical Engineering and Computer Science (EECS), GPA: 9.17/10* — *Nov 2020 – May 2024*

## INTERESTS AND SKILLS

Machine Learning, Natural Language Processing, Computer Vision, Data Structures, Algorithms, C, Python, Java, C++, SQL, Go, R, Bash, Octave, Django, Pytorch, Flask, Tensorflow, Git, Linux, EC2, Postman, Selenium, MongoDB, PostgreSQL

## WORK EXPERIENCE

**Language Technologies Research Center (LTRC)** — IIIT Hyderabad, India
*Research Fellow* — *Aug 2024 - Dec 2024*

- Worked on **Intent Detection** and classification in discourse relations. Developed and proposed various prompt structures that could help various Large Language Models (LLM's) like **ChatGPT, Perplexity, Llama** to actively and correctly capture the underlying intents in discourse relations.

**Inertia Astronautics** — Hyderabad, India
*Artificial Intelligence Intern* — *June 2024 - July 2024*

- Developed **Keypoint based navigation system** that minimizes the reliance on GPS. This system enhances efficiency and addresses connection issues and trackability challenges.
- **Optimized** the navigation pipeline efficiency by **40%** by incorporating **YOLOv7** model for higher processing speed. **Increased** the accuracy of the navigation system by **23%** via implementing Siamese Networks for similarity scores.

**MITACS** — Edmonton, Canada
*ML Research Intern* — *May 2023 - Aug 2023*

- Conducted experiments and developed a machine learning framework to detect cognitive engagement levels of students on e-learning platforms by analyzing their posts. Attained an accuracy of **92%** with an f-score of **0.933**. Implemented a comprehensive dataset categorization system for language processing experiments conducted rigorous **reliability** tests with a score of **0.88**.

## ACHIEVEMENTS

- **ML Mentor**, DeepLearning.AI | **5 star**, [Codechef](#) | **Specialist**, [Codeforces](#) | Solved over **1500+** questions on [Leetcode](#) | **C.N.R Rao Academic Award** for **10** CGPA in freshman year

## TECHNICAL PROJECTS

**Livechat Probot** — [Github Link](#)
*Postgres, FastAPI, LLMs, Python* — *Nov 2024 - Dec 2024*

- Developed a real-time chatbot **Probot** with exceptional capabilities of mathematical reasoning, text summarization, mathematical reasoning, word problems, inferencing tasks, text generation, QnA problems, MCQs, logical reasoning.
- Created a personalized setup of **Probot** for multiple users on a single machine offering data privacy, security and ease retrieval.

## PUBLICATIONS

**Predicting Missing Light Curves of Gamma-Ray Bursts with Bidirectional-LSTM : An Approach For Enhanced Analysis** — *SPAICE, 2024*

Developed a novel method for reconstructing Gamma Ray Burst (GRB) light curves using **Bidirectional LSTMs**. Were able to beat the current baselines and proposed methods by **10%**. [SPAICE ESA](#)