

# Amit Shukla

[LinkedIn](#) | [amushuk890@gmail.com](mailto:amushuk890@gmail.com) | [Github](#) | [Portfolio](#) | [7307094042](#)

## EDUCATION

- **International Institute of Information Technology (IIIT)** Hyderabad, India  
*Master of Science in Computer Science Engineering (CSE)* 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

Data Structures, Algorithms, C, Python, Java, C++, SQL, Go, R, Bash, Javascript, Django, Pytorch, Flask, Tensorflow, Git, Linux, Postman, Selenium, MongoDB, PostgreSQL, Streamlit, BigQuery, Vertex AI, Docker

## WORK EXPERIENCE

- **Cloudphysician** Bangalore, India  
*Data Engineering Intern* May 2025 - Aug 2025
  - Designed and maintained scalable data pipelines and storage solutions using **BigQuery**. Developed interactive analytics **dashboards** to deliver actionable insights across products and services.
  - Developed a complete end-to-end **User Authentication System** for secure access to data dashboards. Implemented **role-based** and **organization-specific** access controls to ensure tailored dashboard visibility.
- **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.

## 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 | **MITACS Research Fellow '23**

## TECHNICAL PROJECTS

- **Bi-Encoder Siamese Networks For Word Sense Disambiguation** [Github Link](#)  
*Python, NLTK, Pytorch, LMs(BERT)* Jan 2025 - April 2025
  - Developed a low resource trained language model from smaller variants of **BERT**, specifically designed to tackle **Word Sense Disambiguation** problem in English beating the SOTA **GlossBERT** by nearly **23%**
- **Peer-To-Peer File Sharing System** [Github Link](#)  
*C++, Crypto++/OpenSSL, Winsock2* Feb 2025 - March 2025
  - Built a hybrid **P2P** file sharing system in C++ with **centralized** tracking and direct **peer transfers**, featuring **group-based access**, **multi-threading**, and **progress-aware** downloads for efficient sharing.
- **Livechat Probot** [Github Link](#)  
*Postgres, FastAPI, LLMs, Python* Nov 2024 - Dec 2024
  - Developed **Probot**, a real-time **chatbot** with advanced capabilities in **reasoning**, **summarization**, **text generation**, and **Q&A**, alongside a **personalized multi-user setup** ensuring data privacy, security, and efficient access.

## 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](#)

**Survey on Computational Approaches to Implicature** *ICON, 2024*

In this paper we explore the capabilities of **LLMs** in capturing **implicature** and pitfalls in current **metrics** used for evaluation for same. We also conducted experiments for NLI and Logic entailment tasks. [ACL](#)