Amit Shukla

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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** — Banglore, 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](.) | **Knight** (**1500+** questions), [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](.)