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](#) | Solved over **1500+** questions on [Leetcode](#) | **C.N.R Rao Academic Award** for **10** CGPA in freshman year

TECHNICAL PROJECTS

Peer-To-Peer File Sharing System — [Github Link](#)
C++, Crypto++/OpenSSL, Winsock2 — *Feb 2025 - April 2025*

- Developed a **hybrid P2P** file sharing system in C++ using Winsock, combining centralized metadata tracking with decentralized, direct peer-to-peer file transfers to **optimize** bandwidth, reduce server load, and enable scalable performance.
- Implemented robust features like **user/group-based** access control, **multi-threaded peer** handling, and **progress-aware file download**s, enabling efficient resource usage, organized sharing, and seamless concurrent file transfers across the network.

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

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](#)