SAMYAK JAIN

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Education

International Institute of Information Technology, Bangalore Oct 22 – Jul 27
Integrated M.Tech (B.Tech + M.Tech) in Computer Science and Engineering

Experience

ML & AI Intern, IIIT Hyderabad May 2025 – Jun 2025
- Curated AI-driven **disaster management system** estimating real-time building occupancy from proxy data.
- Processed **10K+ mobility logs**, engineered temporal features, and trained ML models (**RF, XGBoost**) with **85%+ accuracy**.
- Accelerated iterations using **AI tools** for debugging/experimentation; ensured reliability via **Git/GitHub**.

Projects

Multimodal Visual Question Answering | *PyTorch, LoRA, Pandas, Google AI Studio API* Apr 2025 – May 2025
- Curated and preprocessed a **64K+ VQA dataset** (Amazon Berkeley Objects) using **Google AI Studio API calls** for robust annotation; benchmarked transformer models (**BLIP, ViLT**) with **BERTSCore, BLEU**.
- Fine-tuned baselines with **LoRA**, achieving **96.87% BERTSCore** while enabling **parameter-efficient training** for scalable deployment.

CODE-TOG (Real-Time Collaborative Editor) | *React, Node.js, WebSocket, Heroku* Jul 2024 – Oct 2024
- Developed a **full-stack platform** with React frontend and Node.js/Express **backend**, enabling **real-time collaborative coding** with syntax highlighting and multi-language support.
- Integrated **WebSocket (Pusher)** for sub-100ms live sync across 50+ users; made **scalable backend room/session management** with MongoDB.
- Deployed on **Heroku with CI/CD**, ensuring fault-tolerant performance and production-ready reliability.

RealTimeObjectDetection | *Python, TensorFlow, React, JavaScript, CSS* Apr 2023 – Jun 2023
- Built a **real-time object detection platform** with 85% accuracy and sub-200ms latency, identifying people and mobile devices for surveillance use cases.
- Integrated **TensorFlow backend** with a React frontend to deliver live webcam-based monitoring and scalable real-time inference.

LibSync – Library Management System | *C, TCP, POSIX, File Handling, CUnit* Jan 2023 – Mar 2023
- Engineered a **scalable client-server backend** in C using TCP sockets and POSIX threads, supporting **50+ concurrent users** with minimal latency.
- Enhanced robustness with **100% CUnit test coverage**, preventing 20+ potential runtime crashes during QA.

Technical Skills

- **Programming Languages:** Python (Libraries: TensorFlow, PyTorch, NumPy, Pandas), C++, Java, MySQL.
- **Operating Systems:** Proficient in Linux (Ubuntu, Debian, Arch).
- **Systems & Tools:** Linux, Git, Heroku, Bash, Pusher, QGIS, Google Earth Engine, MatLab, Ipconfig, IpScanner, .
- **Web Development:** React, Node.js, Android Development.

Relevant Coursework

- Data Structures and Algorithms.
- Operating Systems.
- Machine Learning.
- Software Engineering.
- Information Retrieval.
- Computer Network (TCP/IP).
- Large-Scale Systems Design.
- OOPS.

Leadership / Extracurricular

Marketing Lead, TEDx IIIT Bangalore Present
- Led a **team of 5** to design and execute campaigns, boosting event attendance by **40%**.
- Secured 17+ sponsors (**ICICI, PNB, Mphasis**) through partnerships and data-driven outreach.
- Scaled TEDx's digital presence by tailoring campaigns to audience behavior across platforms.

SPOC (Student Point of Contact), Annual Sports Fest 2023
- Coordinated between participants, organizers, and faculty to ensure smooth execution of **20+ events**.
- Managed logistics and scheduling for **500+ attendees**, streamlining registrations and resource allocation.