ANURAAG AKELLA

Hyderabad, India

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Education

Birla Institute of Technology and Science Pilani, Hyderabad Campus Oct 2021 – May 2025
Bachelor of Engineering in Electronics and Instrumentation; Minor in Computing and Intelligence *CGPA: 7.51 / 10*

Relevant Coursework

- Data Structures and Algorithms
- Object Oriented Programming
- Operating Systems
- Database Systems
- Artificial Intelligence
- Machine Learning
- Cryptography
- Internet of Things

Experience

Samsung Research Institute, Bengaluru **Aug 2024 – Dec 2024**
On-Device AI Intern *Bengaluru, Karnataka*

- Developed a scalable **Guardrails** Framework to detect and mitigate **Toxic language (99.5% accuracy), Gibberish Text (97% accuracy), and Prompt Injections (95% accuracy)** in LLM applications.
- Fine-tuned Large Language Models using **LoRA and QLoRA** to embed safety mechanisms directly into the models.
- Improved system reliability and reduced failure cases by integrating Retrieval-Augmented Generation (RAG) and advanced prompt engineering.

QualityKiosk Technologies **May 2023 – Jul 2023**
Software Development Intern *Navi Mumbai, Maharashtra*

- Developed a scriptless automation testing framework in **Java using Selenium** to execute test cases via speech or text inputs.
- Integrated **OpenAI Whisper** for accurate speech-to-text conversion, improving accessibility and productivity.

Projects

Real-Time Sports Match Organizer | *MongoDB, Express.js, React.js, Node.js, Socket.IO* **Jun 2025**

- Built a full-stack web platform for organizing, discovering, and joining sports matches with real-time updates.
- Utilized **Node.js** and **Express.js** for backend APIs.
- Implemented PIN-based check-ins, team invites,live score tracking and live chat with **Socket.IO**.
- Designed optimized **MongoDB (Mongoose) schemas** for users, teams, and matches.
- Used **React with Tailwind CSS** for an interactive and dynamic UI experience.

Full Stack Shopping Application | *React.js, Node.js, Express.js, MongoDB, REST APIs, Git* **Feb 2025**

- Developed a responsive e-commerce app with user authentication, cart management, and order history.
- Built secure RESTful APIs with **Express.js**, **Node.js** and **MongoDB** for data persistence.
- Implemented real-time cart updates and admin panel with role-based access.
- Used **React** for frontend with dynamic routing, responsive layout, and real-time cart updates.

Technical Skills

Languages: Python, C++, JavaScript (ES6+), Java, SQL, HTML5, CSS
Frameworks/Technologies: React.js, Node.js, Express.js, FastAPI, PostgreSQL, MongoDB, TensorFlow, PyTorch, OpenCV
Tools: Git, GitHub, VS Code, IntelliJ, Jupyter, Postman, Cursor

Leadership / Extracurricular

Department of Visual Effects **Aug 2023 – May 2024**
Head of Department *BITS Pilani Hyderabad Campus*

- Led a team of 10+ students in producing professional visual assets for campus hackathons and national-level cultural festivals.
- Collaborated with cross-functional teams to deliver creative assets aligning with technical and event goals.