Dasika Ayyappa Abhinav

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EDUCATION

Anurag University **Present**
B.Tech - Electronics and Communication Engineering - ***CGPA - 7.8*** *Hyderabad, INDIA*

Sri Chaitanya Junior College **2020 - 2022**
Intermediate (MPC) - ***Percentage - 92%*** *Hyderabad, INDIA*

COURSEWORK

- Data Structures & Algorithms
- Arduino
- Java
- Microcontroller Programming
- SQL
- Python

EXPERIENCE

Anurag University **10/2025 – 10/2025**
Student Project Analyst / Learning Experience Design Intern *Hyderabad, INDIA*

- Evaluated engineering project descriptions for clarity, feasibility, and learning effectiveness.
- Identified confusing or difficult components in student projects and documented actionable insights.
- Provided constructive feedback and suggested improvements to enhance project quality and educational value.
- Contributed to the refinement of educational learning materials within the Electronics and Communication Engineering department.

PROJECTS

Secure and Scalable Campus Network Design | Cisco Packet Tracer, VLANs, ACLs, MSTP, EIGRP

- Engineered a multi-layer campus network architecture using VLAN segmentation and ACL-based security to streamline traffic separation.
- Configured MSTP for redundancy and optimal path selection, improving Layer-2 stability and minimizing downtime risks.
- Implemented EIGRP with load balancing to enable rapid route convergence and efficient inter-VLAN communication across routers.

Meme Creator App (Demon Slayer Theme) | HTML, CSS, JavaScript, Spring Boot **Jan – Mar 2025**

- Developed a full-stack anime-themed meme creator platform with end-to-end ownership of both UI and Spring Boot API services.
- Achieved smooth performance for **50+ concurrent users** by refining request handling, caching layers, and UI rendering flow.
- Integrated dynamic editing tools including canvas manipulation, text overlays, and instant preview, resulting in a **30% boost in engagement**.

IoT-Based Temperature & Humidity Monitoring System | Arduino, DHT11 Sensor, Embedded C **2024**

- Created a real-time environmental monitoring device using Arduino and DHT11, delivering consistent and reliable sensor output.
- Achieved **95% measurement accuracy** by applying calibration logic and optimized embedded control loops.
- Reduced data latency by **20%** through efficient sensor polling, memory handling, and communication routines.

TECHNICAL SKILLS

Experienced: C, Java, SQL (MySQL), HTML/CSS, Git, GitHub, Python
Intermediate: Spring Boot, GenAI, Prompt Engineering, Python Libraries,