CHALLA SANJANA

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Summary

Computer Science Engineering undergraduate with hands-on experience in Software development, ML pipelines, and AI-driven automation. Proficient in Python, RESTful APIs, and backend systems, with a strong foundation in Data structures and OOPs, delivering measurable impact through internships and projects.

Education

B.Tech- Computer Science and Engineering **Expected Graduation :2027**
The Apollo University, Chittoor *CGPA:9.88 / 10*

Higher Secondary School **2023**
Jawahar Navodaya Vidhyalaya, Nellore *Percentage :82%*

Secondary School **2021**
Jawahar Navodaya Vidhyalaya, Nellore *Percentage :88%*

Skills

Programming: C, C++, Python, Java
Development: HTML, CSS, JavaScript, Flask, Django, MERN Stack
Databases: MySQL, MongoDB
Machine Learning & AI: Supervised Learning, Data Preprocessing, Prompt Engineering, Generative AI
Tools & Platforms: Git, GitHub, R Studio, Weka Tool, Tableau
Core CS : Data Structures & Algorithms, Object-Oriented Programming, Operating Systems

Experience

AI Tools Intern **May 2025 – Aug 2025**
Sri Padmavati Mahila Visva Vidyalayam *Tools Used: Generative AI tools, APIs, GitHub*

- Streamlined backend workflows using generative AI tools and APIs, integrated with GitHub, resulting in a 30% reduction in processing time.
- Built modular prototypes integrating generative AI APIs for workflow automation; collaborated with a 4-member team on performance and failure analysis

Machine Learning Engineer Intern **Jun2025 – Jul2025**
CDHPM *Tools Used: Python, R*

- Built Python pipelines to preprocess and validate 10k+ healthcare records, reducing noisy inputs by 25%.
- Facilitated workshops with 3 domain experts to define feature engineering strategies and evaluation metrics for ML models, leading to a 20% improvement in model performance on key clinical tasks.

Projects

Voice-Controlled Wheel Chair | *C++* **March 2025 – April 2025**

- Designed and implemented a voice-controlled system for hands-free wheelchair navigation, achieving 90% command recognition accuracy.
- Built a speech-to-command pipeline with safety error handling, reducing incorrect command execution by 30%.

TapNGo – IoT-Based Smart Home Automation System | *C++* **February 2025 – March 2025**

- Developed an IoT-based smart home automation system enabling real-time control of 5+ household appliances via mobile/web interfaces.
- Implemented device communication and logic, improving response time by 30% and reducing manual intervention.

Awards & Certifications

- **NPTEL -** DBMS (2025)
- **SAP -** Generative AI at SAP (2024)
- **Google Skills -** Google Cloud Computing (2024)
- **The Apollo University -** Web Development (2025)
- **NPTEL -** Introduction to Machine learning (2025)
- **Electronic Arts -** Software Engineering (2025)
- **Google(Coursera) -** Crash Course on Python (2026)
- **The Apollo University-**Prompt Engineering(2024)