PATLOLLA AKSHAYA REDDY

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PROFILE

Dedicated B. Tech student specializing in AI & ML, proficient in Python, Java, C++, C, Data Structures, and Machine Learning with hands-on experience through projects and internships. Eager to contribute to innovative software projects and optimize applications through my technical skills. Passionate about solving real-world problems and continuously enhancing technical expertise.

EDUCATION

- **B. Tech in AIML**, Vardhaman College of Engineering, **CGPA: 9.76**
- **Intermediate**, Sri Chaitanya Junior College, **Percentage: 98.7%**
- **SSC**, Sri Chaitanya Techno School, **CGPA: 10.0**

TECHNICAL SKILLS

- **Languages**: Python, C++, C, Java
- **Technologies**: HTML, CSS, JavaScript, SQL
- **Tools**: VS Code, Jupyter Notebook, Google Colab, LATEX, Git, Docker
- **Other**: Data Structures & Algorithms, Machine Learning, Deep Learning, NLP

PROJECTS

- **ML-driven File Compression Tool**: Developed an ML-driven file compression tool using Deep Learning and Huffman Coding to optimize storage and transmission efficiency. Improved compression ratios while preserving data integrity.
- **Member Profile Setup Application**: Built a secure user profile system with OTP-based login and credential validation using Spring Boot.
- **Chatbot Using NLP**: Designed a chatbot integrating NLP, LLM, and Retrieval-Augmented Generation (RAG) for enhanced responses.

CERTIFICATIONS

- Google Cloud Computing Foundations Certificate
- NPTEL Certification in Deep Learning
- MongoDB Python Developer Path
- HackerRank Certified in Basics of Python

EXPERIENCE

AIML Intern, Indian Institute of Technology (IIT) Dharwad *May - July 2024*

- Worked on AI & ML applications in additive manufacturing and 4D printing and implemented real-time monitoring for process control.I leveraged deep learning models, including ANN, LSTM models to predict material behavior.
- Focused on optimizing printing parameters to ensure better material utilization and improve the overall print quality.

AIML Intern, National Institute of Electronics and Information Technology (NIELIT) *August - October 2024*

- Virtual Internship: Developed predictive models using regression and classification.
- Optimized data workflows and evaluated model accuracy and deployed Python-based solutions in ML pipelines.

ADDITIONAL SKILLS

Communication, problem solving, leadership, adaptability, time management, teamwork.