

PATLOLLA AKSHAYA REDDY

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SUMMARY

Dedicated B. Tech AIML student proficient in Python, Java, C++, and Data Structures, with hands-on experience in software development and machine learning. Passionate about problem-solving and optimizing applications through innovative solutions.

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**

PROJECTS

- **File Compression Tool** [GitHub](#)
Developed a deep learning-based file compression tool combining Variational Autoencoders and adaptive Huffman coding to optimize data storage. The AI-driven approach significantly reduces storage costs and improves compression efficiency.
- **Price A Med** [GitHub](#)
Built a full-stack healthcare platform enabling secure member onboarding and medication price comparison. Developed OTP-based profile setup with contact, payment, and health details, and implemented medication search with pharmacy price comparison and home delivery. Integrated Docker for deployment to ensure scalability.
- **Chatbot Using NLP** [GitHub](#)
Developed an intelligent chatbot powered by NLP, LLM, and Retrieval-Augmented Generation (RAG) for precise, context-aware, and dynamic interactions.

INTERNSHIP

IIT Dharwad | AIML Intern | Onsite May – July 2024

- Worked on AI & ML applications in additive manufacturing and 4D printing, implementing real-time monitoring for process control and anomaly detection to enhance production efficiency.
- Developed and fine-tuned machine learning models for adaptive process optimization, ensuring consistent print quality and focused on optimizing printing parameters to enhance material utilization.

National Institute of Electronics and Information Technology | Intern | Remote August – October 2024

- Completed a virtual internship focused on developing predictive models using machine learning algorithm and optimized data preprocessing workflows to enhance model accuracy and robustness.
- Designed and optimized end-to-end data workflows, including data preprocessing (handling missing values, feature scaling, encoding categorical variables) to extract meaningful insights.

CERTIFICATIONS

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

TECHNICAL SKILLS

- **Languages:** Java, Python, C
- **Technologies:** HTML, CSS, JavaScript, React, Node.js, Spring Boot, MySQL
- **Tools:** VS Code, Jupyter Notebook, Google Colab, Git, Docker
- **Other:** Data Structures & Algorithms, Machine Learning, Deep Learning, NLP
- **Soft Skills:** Data Structures & Algorithms, Machine Learning, Deep Learning, NLP