

# PATLOLLA AKSHAYA REDDY

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## SUMMARY

Dedicated B. Tech AIML student proficient in Java ,Python 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 (2022–Present) CGPA: 9.71
- Intermediate, Sri Chaitanya Junior College (2020–2022) Percentage: 98.7 %
- SSC, Sri Chaitanya Techno School (2019–2020) 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 - Full-Stack Healthcare Platform** [GitHub](#)  
Built a full-stack healthcare platform under **Evernorth Healthcare**, enabling secure OTP-based member onboarding and medication price comparison. Integrated Docker for scalable deployment, ensuring efficient operation and seamless member experience.
- **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.

## CERTIFICATIONS

- AWS Academy Graduate – Data Engineering
- AWS Academy Cloud Foundations
- 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
- **Libraries & Tools:** Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, Keras, Git, Docker
- **Others:** Data Structures & Algorithms, Machine Learning, Deep Learning, NLP
- **Soft Skills:** Problem solving, leadership, adaptability, communication, time management, teamwork.