CHITTAPU ABHIRAM REDDY

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Education

Chaitanya Bharathi Institute of Technology (Ongoing)   **Nov. 2022 – June 2026**
B.E. Computer Science Engineering CGPA: 9.35   *Hyderabad, India*

Sri Chaitanya College   **June 2020 – May 2022**
Intermediate Public Examinations: 97.5% — TSEamcet Rank: 2660   *Hyderabad, India*

Experience

SDE Intern - Providence   **June 2025 – Present**
Software Development Engineer Intern   *Hyderabad, India*
- Designed an AI Agent for huge PDFs (containing >2500 pages, 20,000+ row tables), facilitating effective information retrieval from complex documents.
- Implemented a custom preprocessing pipeline in snowflake to hide Personally Identifiable Information(PII) and Protected Health Information(PHI) to achieve HIPAA compliance,
- Designed a RAG-based chatbot to deliver accurate, context-aware responses on organizational tools, processes and resource access to improve employee onboarding experience.

Projects

MEDRAGA - Medical Assistant LLM | *Python, Langchain, FastAPI, Cohere, Playwright*   **Link**
- Developed a medical assistant that performs up-to 35% better than the competition in providing personalized treatment plans and second opinions.
- Utilized Retrieval Augmented Generation (RAG) to feed the model with cutting-edge medical research & patient data for better-informed predictions.
- Leveraged Qdrant vector database for fast retrieval of relevant data and Langchain to create the RAG pipeline.

MisclassifyMe - Fooling Image Classifiers | *Pytorch, TorchVision, Pillow*   **Link**
- Engineered FGSM (Fast Gradient Sign Method) and PGD (Projected Gradient Descent) based algorithm to generate adversarial images to fool image classifiers to misclassify target images.
- Generated Adversarial images with imperceptible changes using PGD which were misclassified by the VGG16 model with up to 95% confidence.
- Simulated targeted attacks using PGD causing the VGG16 classifier to misclassify images to a chosen target class with over 85% reliability.

Verisite - Verifying website authenticity | *Python, Pytorch, XGBoost, FastAPI, Transformers, QLora*   **Link**
- Built an ML-based browser extension to detect malicious/phishing websites with 83% accuracy.
- Fine-tuned a DeBERTa-v3 language model using qlora to distinguish between benign and malicious websites.
- Added a multi-input neural network on top of the DeBERTa model to improve precision by 3%, greatly decreasing the false positive rate.

Technical Skills

Languages: Python, C, C++
Web & Backend: React, FastAPI, , GitHub | **Databases:** MySQL, MongoDB
ML Libraries & Frameworks: TensorFlow, PyTorch, Keras, Scikit-learn, LangChain, Langgraph

Achievements / Certifications

Competitive Programming
- Specialist at CodeForces with a rating of 1465 (Username: Abhiram_29)
- 3 Star at CodeChef with a rating of 1741 (Username: abhiramreddy04)

Machine Learning Specialization
by Stanford and DeepLearning.ai
- Completed the Machine Learning Specialization by Stanford university on Coursera covering the theoretical and practical aspects of machine learning

Leadership / Extracurricular

Vice President, HackItOn, CBIT   **February 2024-Present**
- Spearheaded the organization of multiple large-scale hackathons with a price pool of up to rupees 1.2 Crore, attracting over 500 teams from various institutions.