CHITTAPU ABHIRAM REDDY

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Experience

SDE Intern   **June 2025 – August 2025**
Providence India   *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.

Education

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

Projects

Crypto-Master - A crypto themed game | *FastAPI, React, JavaScript, Mongo DB,Azure, Tailwind CSS*   **Link**

- Developed a real-time, web based multiplayer game using Microsoft Azure, successfully hosting over 80 concurrent players with less than 70ms latency during a live event.
- Architected a scalable backend using python validated via automated load testing to ensure high availability and performance for over 500 simultaneous participants.
- Implemented a dynamic leaderboard with real-time data synchronization to drive player engagement by displaying player rankings and scores.

Verisite - Verifying website authenticity | *Python, Pytorch, FastAPI, Transformers, QLora, Javascript*   **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.

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.

Technical Skills

Programming Languages: Python, C, C++, JavaScript
Web & Backend Development: React, FastAPI, Node.js, HTML, CSS
Cloud & DevOps: Azure, Docker, Linux
Databases & Storage: SQL, PostgreSQL, MongoDB, Firebase
Machine Learning & AI Frameworks: TensorFlow, PyTorch, Keras, Scikit-learn, LangChain, LangGraph

Achievements/Certifications

- MongoDB Certified Developer, Associate (C100DEV) (Certificate link)
- Specialist at CodeForces with a rating of 1465 (Username: Abhiram_29)
- 3 Star at CodeChef with a rating of 1741 (Username: abhiramreddy04)

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.