

Reddi Mohana Krishna

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EDUCATION

- **National Institute of Technology Silchar** Silchar, India
Master of Technology in Artificial Intelligence; CGPA: 9.00 Aug 2023 – May 2025
- **TPIST (JNTU Kakinada)** Andhra Pradesh, India
Bachelor of Technology in Computer Science and Engineering; CGPA: 6.58 Aug 2017 – July 2021

EXPERIENCE

- **AIISC, University of South Carolina** Columbia, USA
Research Intern (Part time) Feb 2025 – Present
 - **LLM Alignment:** Research Intern at AIISC, University of South Carolina, working on competitive alignment in large language models (LLMs) to enhance robustness, fairness, and ethical AI considerations under Dr. Amitava Das.
- **Bosch Global Softwares** Bengaluru, India
Student Trainee Sep 2024 – Present
 - **LLM-Powered Chatbot:** Developed a POC LLM-based chatbot for real-time Q&A on large datasets using ‘unSQLv1-7b-sqlite-lora’, Meta LLaMA 3.2 3B Instruct, Hugging Face Transformers, SQLAlchemy, SQLite, and Streamlit.

RESEARCH & PUBLICATIONS

- **AI-Generated Text Detection:** Proposed a hybrid deep learning model for detecting AI-generated text, achieving 98.85% accuracy on the HC3 dataset; accepted at HCI 2025.
- **Low-Resource Indic Language Translation:** Presented findings on machine translation models for Indic languages (English-Assamese, English-Mizo, etc.) at EMNLP 2024 (WMT24).
- **AI-Generated Text Detection - COLING 2025:** Ranked 18th globally in GenAI Detection Task 2 at COLING 2025, leveraging DistilBERT and XLM-RoBERTa for multilingual text detection.

PROJECTS

- **LLM-Based DataFrame Agent:** Developed an LLM-powered agent to automate DataFrame operations, preprocessing, and visualization code generation using Python, Pandas, Hugging Face, and SmolAgents.
- **AI-Generated Text Detection:** Designed a hybrid deep learning model to detect AI-generated text, achieving 98.85% accuracy on the HC3 dataset using NLP techniques, transformers, and PyTorch.
- **LLM-Based Chatbot With RAG:** Built an LLM-powered chatbot using LangChain, Cohere API, and Chroma, vector databases for semantic search and conversational AI, deployed via Streamlit.

SKILLS

- **Programming Languages:** Python, C/C++
- **Libraries & Frameworks:** PyTorch, TensorFlow, Scikit-Learn, Transformers, LangChain, Chroma
- **Machine Learning & Deep Learning:** Supervised & Unsupervised Learning, CNN, RNN, LSTM, Transformer Models, GANs, Diffusion Models
- **NLP & LLMs:** Natural Language Processing, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Vector Databases, Agents
- **Tools:** Git/GitHub, VS Code, Jupyter, Hugging Face, SQLAlchemy, Streamlit
- **Data Science Packages:** NumPy, Pandas, Matplotlib, NLTK, spaCy
- **Coursework:** Machine Learning, Deep Learning, Natural Language Processing, Artificial Intelligence, Data Science, Machine Translation, Data Analytics