Chandra Rup Daka

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https://github.com/chandrarup

Professional Summary

Chandra Rup Daka is a Generative AI Engineer with strong expertise in deep learning frameworks like TensorFlow and PyTorch, and extensive experience building AI systems using Python. His background in NLP, computer vision, and large language models aligns well with the requirements for developing multimodal AI solutions for surgical robotics. His academic and professional experience in AI research and development positions him to contribute effectively to VLA model research and implementation.

Education

University Of Houston **Aug 2025 – May 2027**
Master of Science in Engineering Data Science and Artificial Intelligence

Amrita Vishwa Vidyapeetham **Jun 2019 – May 2023**
B.Tech in Computer Science and Engineering (Artificial Intelligence)

Experience

Accenture **Aug 2023 – Aug 2025**
Advanced App Engineering Analyst *Chennai, India*

- Delivered GenAI solutions for Reverse Engineering SDLC use cases to production: Change Impact Analysis, Code Translation, Code Dependency Graphs, and automated User Stories & Test Case Generation.
- Achieved 89% coverage in Technical Analysis phase and 9% efficiency at 46% code coverage.
- Architected LLM workflows using LangChain, AutoGen with prompt tuning, few-shot learning, reranking, and tool execution. Customized LLM auth via certs, custom tokens, APIM endpoints for diverse client needs
- Recognized with Wall of Fame (Q4 FY24) and Client Recognition Award for successful delivery.

Research Publications

Detection of Real and Manipulated Videos using Transfer Learning | (GCAT Conference) ***Oct 2024***

- Proposed a **deep learning framework** to detect fake and manipulated video content, contributing to digital media integrity and AI-assisted misinformation detection.

Indian Sign Language Generation from Live Audio/Text (Tamil) | (ICACCS) ***Mar 2023***

- Developed a real-time **speech-to-sign translation pipeline** integrating NLP and computer vision, enhancing accessibility for Tamil-speaking hearing-impaired users.

Projects

Detection of Real and Manipulated Videos using Transfer Learning

- Developed deep learning framework for deepfake detection achieving 96% accuracy on 6,500-video dataset. Published in GCAT October 2024.

Indian Sign Language Generation from Live Audio/Text (Tamil)

- Real-time speech-to-sign translation system for Tamil-speaking hearing-impaired community. Published in ICACCS March 2023.

Multi-Agent Deep Reinforcement Learning for Highway Merging

- Autonomous vehicle on-ramp merging solution using DQN/DDQN with CNN-based policy network, Experience Replay buffers, and complex reward function balancing safety and efficiency.

Certifications

AWS Certified Cloud Practitioner ***(06/2024 – 06/2027)***
Azure AI Fundamentals ***(03/2025)***
Azure AI Engineer Associate ***(04/2025 – 04/2026)***
NVIDIA Building Transformer-Based Natural Language Processing Applications ***(11/2025)***

Skills

AI/ML: Large Language Models (LLMs), Agentic AI Systems, Natural Language Processing, Retrieval-Augmented Generation (RAG), Deep Learning, Reinforcement Learning, Computer Vision, Speech Processing, Robotics, Multi-Agent Systems, Prompt Engineering, Transfer Learning, Low-Resource Language Technologies

Data Science: