# Chandra Rup Daka

+1 253-632-3181 chandrarupdaka@gmail.com linkedin.com/in/chandra-rup-daka/ github.com/chandrarup

## Professional Summary

Generative AI Engineer with 2+ years of experience designing and deploying production-grade LLM and agentic solutions across enterprise environments. Skilled in building Retrieval-Augmented Generation (RAG) pipelines using LangChain and AutoGen, with hands-on experience in Python and deep learning frameworks like TensorFlow and PyTorch. Demonstrated ability to develop robust data pipelines and integrate SQL/NoSQL databases, aligning closely with the requirements for end-to-end ML solution development.

## 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

**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:**

**Tools & Frameworks:** Docker, Git, ROS, OpenCV, Arduino IDE, Jupyter, VS Code, MoveIt!, RViz, Gazebo, TensorFlow, PyTorch, Keras, LangChain, AutoGen, CrewAI, FastAPI, Flask, Hugging Face Transformers, Scikit-learn

**Languages:** Python, SQL, Java, C++, C