Chintan Acharya

chintankacharya@gmail.com | +1 (352) 740 6846 | chintan-acharya-b5757a192 | chintan-27 | thecka.tech

Education

- **University of Florida** GPA: 3.86 / 4.00 — Aug 2022 - May 2024
  Master of Science in Computer and Information Science ML Track — Gainesville, FL, United States
- **Dwarkadas J. Sanghvi College of Engineering, Mumbai University** GPA: 9.25 / 10.00 — Jun 2018 - Jun 2022
  Bachelor of Engineering in Computer Engineering — Mumbai, ML, India

Relevant Coursework: Advanced Data Structures, Distributed Operating systems, Computer Networks, Computer Architecture, Analysis of Algorithms, Machine Learning, NLP, Computer Vision, DBMS, Cryptography and CyberSecurity

Skills

- Machine Learning: PyTorch, TensorFlow, Sklearn, NLTK, HuggingFace, Transformers, MLflow
- Languages: Python, C++, JavaScript, Java, Dart, TypeScript
- Technologies: Flask, Django, React, Next.Js, Node.Js, Docker, Kubernetes, DevOps, Git, GitHub, BitBucket, Jupyter Notebooks, VS Code, REST/SOAP, Apache Kafka
- Databases: PostgreSQL, MongoDB, SQLite, S3, OpenSearch, SQL

Experience

Research Assistant - *University of Florida (SMILE Lab)* May 2024 - Present

- Optimized and accelerated existing MRI segmentation models by 30% using advanced CUDA GPU techniques, enhancing AI engineering capabilities and low-level model development efficiency.
- Spearheaded the implementation of new encoder architectures, boosting model scalability and performance to process large MRI datasets, reflecting strong problem-solving and machine learning expertise.
- Developed and deployed innovative data preprocessing strategies, improving data reliability and supporting advanced data science workflows in a cloud operations environment.
- Pioneered integration and version control using Singularity in Linux, demonstrating toolchain expertise and effective communication skills by leading cross-functional technical initiatives.

Volunteer Research Assistant - *University of Florida* Jan 2024 - Jan 2025

- Spearheaded the integration of advanced transformer models for genetic sequence embeddings, boosting analysis accuracy by 20% and aligning with cutting-edge AI methodologies in genomic research.
- Engineered comprehensive models for protein-DNA interaction analysis, enhancing genomic study insights by 30% through the application of state-of-the-art machine learning techniques in cloud environments.

Research Assistant - *University of Florida (IC3 Lab)* Nov 2022 - Jul 2023

- Spearheaded the development of a Transformer UNet model for 4D Cardiovascular MRI segmentation, enhancing diagnostic accuracy by 34% and securing $15k in funding, demonstrating advanced skills in machine learning, AI engineering, and problem-solving.
- Pioneered the deployment of cardiovascular imaging solutions using Flask on cloud platforms, improving model predictions by 17% and illustrating expertise in cloud operations, data science, and toolchain integration.

Software Developer - *IotMaticHub* Apr 2021 - Dec 2021

- Spearheaded the design and implementation of an AWS-based ETL pipeline, achieving over 120% increase in data processing efficiency, while collaborating with top industry partners to enhance machine learning and AI model development capabilities.

Projects

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