



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, HuggingFace, Transformers, NLTK, MLflow
- Languages:Python, C++, Java, JavaScript, Dart, TypeScript
- Technologies:Flask, Django, React, Next.js, Node.js, Spring (MVC/Boot), REST/SOAP, DevOps, Docker, Kubernetes, Jupyter Notebooks, VS Code
- Databases:PostgreSQL, OpenSearch, SQLite, S3, MongoDB, SQL, GraphQL, Apache Kafka

Experience

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

- Spearheaded a significant upgrade in the GatorBrain MRI segmentation model, achieving a 30% reduction in inference time by deploying advanced CUDA GPU optimizations and elevating model efficiency in AI-driven environments.
- Pioneered the enhancement of model scalability by revamping the encoder architecture to handle expansive datasets up to 50 GB, utilizing Singularity containers for streamlined version control and data integrity.
- Engineered and implemented over four robust data cleaning protocols, significantly bolstering the accuracy and dependability of machine learning outputs.
- Leveraged cloud-based solutions to manage large-scale data operations, enhancing workflow efficiency and aligning with state-of-the-art machine learning and AI toolchains.

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

- Spearheaded the integration of transformer models for DNA sequence embeddings, achieving a 20% enhancement in prediction accuracy and expanding genomic insights by 30%, leveraging machine learning, data science, and advanced AI methodologies.
- Orchestrated the deployment of cutting-edge models for protein sequence analysis, achieving a 25% improvement in genomic association studies, while optimizing workflows in cloud environments to ensure scalable and efficient operations.

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

- Spearheaded the development and deployment of a Transformer UNet model using Flask, enhancing segmentation accuracy of 4D Cardiovascular MRIs by 17%, demonstrating advanced AI and machine learning proficiency in collaboration with cardiologists for improved diagnostic techniques.
- Secured \$15k in funding by showcasing groundbreaking research at a leading AI datathon, indicating a 34% potential improvement in diagnostic precision, underscoring exceptional problem-solving skills and robust communication capabilities to highlight the transformative impact in medical data science.

Software Developer - IotMaticHub Apr 2021 - Dec 2021

- Spearheaded the design of a highly-efficient Flutter mobile app for real-time inventory tracking, achieving a 120% increase in efficiency, while seamlessly integrating cloud-based data pipelines using AWS DynamoDB, demonstrating comprehensive expertise in data science, AI methodologies, and cloud operations aligned with modern toolchain standards.

Projects

xyzprojectsxyz