

S KRISHNA NIVEDITHA

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EDUCATION

Masters of Science in Computer Engineering
University of Florida, Gainesville

Aug 2025 - May 2027

Bachelor of Technology in Electrical and Electronics Engineering
National Institute of Technology, Calicut | CGPA: 8.65

Aug 2018 - May 2022

TECHNICAL SKILLS

Languages: Python, C++, Java

Web Technologies: HTML5, CSS3, Node.js, Springboot, Flask

Tools: Git, Rally, Confluence, Jira, Cursor, Claude Code

Operating Systems: Windows, Linux

DevOps: Docker, Kubernetes, Jenkins

Libraries: TensorFlow, Pytorch, Sklearn, Keras, Numpy

Databases: MySQL, MongoDB, Supabase

AWS: S3, EC2, Lambda, CloudFormation, RDS, CloudWatch

EXPERIENCE

University of Florida

Gainesville, Florida

Graduate Student Researcher

Sept 2025- Present

- Contributed to research on speaker anonymization for child speech data at the Human Computer Interaction Lab; processed 500+ audio samples using PyTorch to compare the performance of native and diffusion-based anonymization methods.

GE HealthCare

Bengaluru, India

System's Engineer - Deep Learning

June 2024 - Aug 2025

- Trained production-ready deterministic deep learning models in TensorFlow to power AI-assisted automatic slice prescription (AIRx) feature for prostate MRI, enabling scans 4× faster with 5× fewer user interactions. Oversaw end-to-end data management on cloud and model training pipelines, improving the production model's DICE score to 85%.
- Involved in the design and development of the AIRx feature, translating geometrical logic prototyped in python into C++ microservices. Implemented test-driven development, achieving 90% code coverage to ensure maintainable software.

GE HealthCare

Bengaluru, India

Engineer - Edison Engineering Development Programme (EEDP)

Aug 2022 - May 2024

Worked with 3 teams over the course of 2 years as part of the EEDP flagship leadership programme at GEHealthCare.

- Worked on Clinical Language Processing to develop transformer-based pipelines for clinical report parsing and synthetic data generation; applied Named Entity Recognition (NER) to 5,000+ reports, reducing manual annotation by 5 hours weekly.
- Built an orchestrator to perform ETL workflows for patient data transfer, replacing legacy Node-RED pipelines with AWS Step Functions and CloudFormation, and integrating API Gateway, S3, RDS, Lambda, and CloudWatch, improving transfer speed by 20% and providing enhanced scheduling and triggering control.
- Optimized C++ and Springboot microservices algorithms to reduce AIRx brain and knee scan times by 5% through adjustment of scan parameters and protocols, while maintaining optimal signal-to-noise ratio (SNR).

Enzen Global Solutions Pvt Ltd

Remote

Summer Intern

May 2021 - June 2021

- Conducted end-to-end modeling, simulation, and debugging of 20+ solar PV-integrated smart grid networks using ETAP and MATLAB. Performed load flow and harmonic analyses to deliver data-driven compliance insights and enhance system reliability.

ACADEMIC PROJECTS

- Radiology Quiz Bot**

Aug 2024 - Oct 2024

Developed a React-based quiz application with a FastAPI backend to assist medical students in diagnosing medical images. Built REST APIs for image upload, model inference, and quiz management, and integrated a fine-tuned transformer-based Medical Image Captioning model for diagnostic predictions.

- Real Time Object Detection with Llama**

April 2025 - April 2025

Implemented real-time object detection using SmolVLM-500M served via llama.cpp. Explored agentic LLM workflows and the Model Context Protocol (MCP) through hands-on development of LLM-integrated applications leveraging tools such as Claude Code and Cursor.

LEADERSHIP AND ACHIEVEMENTS

- Presented a paper titled, 'Optimal Glideslope Guidance Algorithm Development for Space Station Rendezvous in an Elliptical Orbit' at the National Conference on Multidisciplinary Design, Analysis, and Optimization (NCMDAO) 2022, IIT Bombay.
- Organized INFINITUM'19, an inter-school Mathematical Aptitude Test with 10,000+ student participants, as Assistant Secretary of Club Mathematica at NITC