

T. CHAITHRA

Computer Science and Engineering
IIIT Srikakulam
Expected Graduation: 2025

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CAREER OBJECTIVE

AI/ML Engineer with 1 year of specialized experience in edge AI deployment, model optimization, and embedded system integration. Proven track record in deploying deep learning models on resource-constrained platforms (NXP i.MX8M+, MAX78002) with emphasis on real-time performance and low-latency inference. Seeking to leverage expertise in computer vision, model quantization, and end-to-end AI pipeline development to drive impactful innovation in production-grade AI systems at a forward-thinking organization.

EDUCATION

•Rajiv Gandhi University of Knowledge and Technologies	2021-2025
Bachelor of Technology in Computer Science, Andhra Pradesh	CGPA: 8.7
•Rajiv Gandhi University of Knowledge and Technologies	2019-2021
Pre-University Course (Mathematics, Physics, Chemistry), Andhra Pradesh	CGPA: 9.56
•Government High School, Santhipuram, Chittoor	2018-2019
Secondary School Certificate, Andhra Pradesh	CGPA: 10.0

PROFESSIONAL EXPERIENCE

•AI/ML Trainee - Edge AI	Oct 2025 - present
VconnectTech Systems	Hyderabad, India
– Designed and optimized deep learning models for real-time inference on resource-constrained edge devices, achieving low-latency performance with minimal accuracy loss	
– Deployed computer vision and ML models on embedded platforms including NXP i.MX8M+ and MAX78002, implementing quantization, pruning, and ONNX conversion pipelines	
– Built end-to-end AI workflows: dataset curation and preprocessing, model training and fine-tuning, performance benchmarking, and hardware-accelerated deployment	
– Collaborated with cross-functional teams to validate models in production environments, ensuring stability and meeting real-time constraints for edge applications	
•AI/ML Intern - Edge AI	Oct 2024 - Sep 2025
VconnectTech Systems	Hyderabad, India
– Developed compiler-level instruction generation in Python for CNN operators using ONNX, translating model graphs into optimized hardware instructions for edge accelerators	
– Designed, trained, quantized, and deployed CNN models using PyTorch and TensorFlow, with ONNX export and ai8x-synthesis integration for MAX78002	
– Applied reinforcement learning-based prefetching using Pythia and analyzed CNN/LLM performance with PyTorch Profiler and TensorBoard to optimize FLOPs, latency, and memory access.	
– Deployed optimized models for ADAS applications (overspeed, wrong-way, triple riding, helmet detection) and worked with Transformer architectures (BERT, GPT) for model fine-tuning and inference.	

PROJECTS

•Crop and Weed Detection	Apr 2024 - Jun 2024
Internship Project / UniCoverage Technologies (Edunet Foundation)	
– Built a deep learning-based image classification system for automated crop and weed identification in agricultural settings	
– Addressed class imbalance through data augmentation and weighted loss functions; fine-tuned hyperparameters for optimal accuracy	
– Delivered a production-ready model with strong generalization on unseen data, demonstrating practical applicability	

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, SQL, HTML/CSS, JavaScript (Basics)

ML/DL Frameworks: TensorFlow, PyTorch, Scikit-learn, ONNX Runtime, Keras

Edge AI & Embedded: NXP i.MX8M+, MAX78002, Model Quantization, Pruning, TensorRT, Edge TPU

Data Science Tools: NumPy, Pandas, Matplotlib, Seaborn, Jupyter, Google Colab

ML Techniques: CNNs, RNNs, Transformers, GANs, Transfer Learning, Model Optimization

Developer Tools: Git, Visual Studio Code, Linux, Docker (Basics)

Soft Skills: Problem-solving, Team Collaboration, Communication, Adaptability, Time Management

Competitive Programming: Solved 200+ problems on LeetCode and GeeksforGeeks

CERTIFICATIONS

- Machine Learning with Beginners - Analytics Vidhya
- TechSaksham Foundation Course - Edunet Foundation
- Introduction to Generative AI - Coursera
- Java Programming Basics - HackerRank
- Introduction to Data Science - Coursera

LEADERSHIP & RESPONSIBILITIES

- General Secretary, Coding Club - RGUKT Srikakulam (2023-2024)