Mahsa Majdzadeh Ardakani

Graduate Research Assistant at iCAS Lab

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Summary

Dedicated Computer Science graduate student with expertise in academic research, focusing on neuromorphic and edge computing. Skilled in real-time machine learning on edge devices, with a strong background in power profiling of machine learning models and deploying large language models on mobile devices.

Education

University of South Carolina *— M.S. in Computer Science*
Columbia, SC, USA
August 2022 - Present

Azad University, Khorasgan Branch — B.A. in English Translation
Isfahan, Iran
September 2012 - June 2016

Related Courses

Computer Architecture, Neuromorphic and Edge computing

Experience

Graduate Research Assistant
iCAS Lab, Part time
University of South Carolina,Columbia, SC
August 2023-present

Graduate Teaching Assistant for Unix/Linux Fundamentals
University of South Carolina, Part time
January 2023- Present

Skills

Edge Computing: Proficient in power profiling and performance optimization of Artificial Neural Network (ANN) models on edge devices such as NVIDIA JETSON NANO and Raspberry Pi.

ANN Power Profiling: Experienced in detailed power profiling of ANN models on edge devices, focusing on efficiency and performance enhancements.

LLM Deployment on Mobile Devices: Skilled in deploying large language models (LLMs) on iOS and Android.

BERT Model Deployment: Deploying BERT base models on Jetson Nano and Raspberry Pi, specializing in latency measurement and system optimization for real-time applications.

Languages And Technologies

Programming Languages: Python, C++, Java
Boards: Jetson Nano, Intel NCS2, Raspberry Pi4, Raspberry Pi5

Publications

James Seekings, Peyton Chandarana, ***Mahsa Ardakani****, MohammadReza Mohammadi, Ramtin Zand, "Towards Efficient Deployment of Hybrid SNNs on Neuromorphic and Edge AI Hardware," Proceedings of the 2024 11th International Conference on Neuromorphic Systems (ACM ICONS 2024).*