Saikundan Suddapalli

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Professional Summary

Computer Science graduate student and researcher with extensive industry experience in full stack development with C++ ,C#.Net ,Python machine learning LLMs and quantum computing. Skilled in applying cutting-edge techniques to real-world challenges like drug discovery with AI and quantum algorithm development. Currently pursuing a Master's in Computer Science with a 4.0 GPA and contributing to research in Crystal LLM (MS CS Completion date 6th Dec 2024 & OPT start Date 3rd Feb 2025) .

Education

University of North Georgia, Dahlonega, GA *M.S. in Computer Science* Jan 2024 - Dec 2024
GPA: 4.0/4.0

Jawaharlal Nehru Technological University, Hyderabad, India
B.E. in Computer Science July 2017 - Aug 2021

Technical Skills

- **Full-stack tools**: ReactJS , Nodejs , C#.NET,MYSQL,Flask,Django,MongoDB,Spring Boot
- **Programming Languages**: Python , C++ , Java ,JavaScript,C#,SQL ,Bash
- **Machine Learning Frameworks**: TensorFlow, PyTorch
- **Reverse Engineering**:Aarch64, x86,Ghidra, Cutter
- **Linux**:Arch Linux (*), Red Hat, Garuda
- **Cloud**:Azur (Admin and Dev Ops tools),Google
- **Tools**: Ansible , GDB , CMake , Ubuntu Multipass ,Docker ,Kubernets ,Unreal ,Unity

Projects

Master's Thesis: Comparative Analysis of Quantum Neural Networks on Imbalanced Data Video Deepfake Detection using CNN + RNN **X-ray Analysis** using VITs **Malware Analysis on Anubis Banking Trojan Malware threat analysis on Ubuntu Multipass.**

Research Experience

Graduate Research Assistant May 2024 - Dec 2024
University of North Georgia, Dahlonega, GA

- **Research Under Dr. Young Wei on Crystal LLM** Ongoing
  Research focused on training large language models (LLMs) to predict chemical properties for drug discovery, particularly for Alzheimer's disease research. Contributed to advancements in LLM applications in the medical field.

- Developed and led tutorials on quantum computing using IBM Quantum Experience and Qiskit, introducing students to quantum algorithms.
- Guided students through projects applying Python for quantum problem-solving, leveraging cloud-based quantum resources.

Industry Experience

C++ & Python Developer Nov 2021 - Nov 2023
Tata Consultancy Services, Hyderabad, India

- Spearheaded the optimization of the Enhanced Order Book Interface, increasing user base by 25% and improving market presence.
- Developed a low-latency Info Feed for high-profile clients, enhancing satisfaction by surpassing performance expectations.
- Automated monthly SLA reports with Python, reducing generation time by 30%.

Full Stack ML Engineer Apr 2019 - Oct 2021
River Bend Data Solutions, Hyderabad, India

- Developed machine learning analytics for wearable devices, improving chatbot accuracy by 10% using integrated ReactJS.

Publications & Conferences

Shifting Landscape of DNNs to LLMs: Comparative Efficiency in Predictive Analysis
Selected at ICAI Conference 2024. Contributed to AI research by comparing the efficiency of LLMs and DNNs in predictive analysis for complex datasets.

Master's Thesis: Comparative Analysis of Quantum Neural Networks
University of North Georgia, 2024.

Short research poster : Malware analysis on Banking Trojan Anibus
University of North Georgia, 2024.

Certifications

- **TensorFlow Certified Developer** Google
- **Azure Administrator Associate (Exam 104)** Microsoft

Professional References

- Dr. Bryson Payne — `bryson.payne@ung.edu` — 706-864-1694
- Dr. Yong Wei — `yong.wei@ung.edu` — 706-867-2152
- Dr. Xiuping Tao — `xiuping.tao@ung.edu` — 706-867-2514
- Dr. Tamirat Abegaz — `tamirat.abegaz@ung.edu` — 706-867-4599