

# SAI KUNDAN SUDDAPALLI

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## Professional Summary

Versatile Software Developer and emerging Machine Learning Engineer with over two years of experience. Specializes in C++ and Python, with a proven track record of enhancing trading platforms and integrating advanced machine learning models. Currently pursuing a Master's degree in Computer Science (Machine Learning & Cybersecurity).

## Education

Master of Science (M.S.): Computer Science - University of North Georgia , Dahlonega GA	December 2024
<b>Deep Learning:</b> Gained expertise in Deep Neural Networks (DNN) using TensorFlow and PyTorch.	
Studied Large Language Models (LLM) and AI agents with LangChain.	
Completed a project on video deep fake detection.	
Authored a paper on "LLM vs DNNs," accepted for presentation at ICAI.	
<b>Advanced Reverse Engineering:</b> Learned x64 and ARM64 assembly languages.	
Analyzed binaries using Ghidra, Cutter, and debugging tools like GDB, EDB, and WinDbg.	
Conducted malware analysis, including a study on the Anubis banking trojan, and authored a related paper.	
<b>Advanced Network Security:</b> Completed advanced labs focusing on network security protocols and practices.	
<b>Advanced Computer Security:</b> Studied ethical hacking techniques and practices.	
<b>Advanced Computer Forensics:</b> Conducted forensic investigations using FTK Imager.	
Performed labs on Windows, macOS, Linux, and Android platforms.	
<b>Thesis:</b> "A Comparative Analysis of Quantum Neural Networks on Imbalanced Datasets."	
Bachelor of Technology : Computer Science - Vidya Jyothi Insitute of Techonologies , Hyderabad Telangana	August 2021

## Experience

Market Data Developer	November 2021 - November 2023
Tata Consultancy Services, Hyderabad, Telangana, India	
Experienced C/C++ Developer specializing in the BFSI vertical with over 2 years of experience contributing to the <b>Multi Commodity Exchange (MCX) trading platforms</b> . Demonstrated expertise in enhancing critical components and driving innovation.	
Enhanced the sophistication of trading platforms by mastering critical components such as the Order Book Interface, Market Data Distribution, and Info Feed, integrated seamlessly with Kafka.	
<b>Impact:</b> Improved analytical capabilities and precision in C++ development, contributing to overall system performance.	
Led optimizations in the Enhanced Order Book Interface, resulting in a 25% increase in user base, adding over 1 million users.	
<b>Impact:</b> Significant growth in user engagement and market presence.	
Developed a low-latency Info Feed for alpha clients, exceeding performance expectations and significantly improving client satisfaction levels.	
<b>Impact:</b> Enhanced client retention and competitive edge.	
Implemented a seamless Git flow, enhancing collaboration efficiency by 30%.	
<b>Impact:</b> Achieved error-free code deployments and improved version control practices.	
Designed and implemented a robust CI/CD pipeline using Bash, Python, and Ansible, leading to a 40% reduction in deployment time.	
<b>Impact:</b> Improved deployment reliability by 25%.	
Orchestrated a Python-powered deployment process that cut deployment time by 50% across 100 servers.	
<b>Impact:</b> Boosted efficiency and optimized time utilization.	
Ensured flawless environment handovers before live trading sessions, instilling confidence during critical operational hours.	
<b>Impact:</b> Enabled seamless transitions with zero disruptions.	
Automated the extraction of monthly SLA reports using Python scripts, reducing report generation time by 30%.	

**Impact:** Streamlined reporting processes, allowing for faster analysis and decision-making.  
Implemented automated system checks which minimized manual effort by 20%, fostering a proactive and reliable system.  
**Impact:** Enhanced system reliability and reduced operational risks.

ML Engineer InternApril 2021 - October 2021

River Bend Data Solution , Hyderabad, Telangana, India

Embarked on my career as an ML Engineer within a dynamic startup environment, quickly adapting to the fast-paced technological landscape. Demonstrated a strong capability for rapid learning and application of diverse technologies.  
Mastered the fundamentals of ReactJS within an ambitious two-month timeframe, enabling the integration of advanced technologies into current projects.

**Impact:** Facilitated seamless integration of new technologies, enhancing project versatility and delivery by 20%.  
Implemented TensorFlow.js to integrate machine learning models into React.js applications, optimizing the functionality and intelligence of web solutions.

**Impact:** Boosted the startup's capabilities in delivering smarter, data-driven web applications, increasing user engagement by 30%.  
Demonstrated exceptional adaptability by quickly transitioning between technologies, from machine learning to front-end development, under tight deadlines.

Skills

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|---|--|--------|
| • C++   | • Python   | • Bash |
| • Machine Learning Tensorflow Pandas<br>Numpy Pytorch Sckit learn | • Cutter Ghidra GDB/EDB (Reverse<br>Engineering) | • Java |
| • Reactjs   |  |        |

Certification

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- **Certified TensorFlow Developer**
- **Microsoft Certified: Azure Administrator Associate**

Portfolio Link

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github : <https://ironman20121.github.io/My-Tech-Universe/>  
linkedin : <https://www.linkedin.com/in/saikundan/>