Bhuvaneswar Reddy Vangimalla

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Summary

Machine learning specialist and software developer with expertise in vulnerability assessment, quantum computing applications, and ML implementation. Currently pursuing MS in Computer Science at Texas Tech focusing on cyber-physical system security. Delivered measurable results including 80% improvement in vulnerability detection rates, quantum machine learning models with ROC AUC scores up to 0.70, and systems with up to 90% accuracy.

Education

Texas Tech University August 2023 – May 2025
Master of Science in Computer Science, Lubbock, Texas

Chaitanya Bharathi Institute of Technology August 2019 – May 2023
Bachelor of Technology in Computer Science and Engineering, India

Experience

DevOps Engineer, Ranvi Technologies, Hyderabad, India January 2023 – May 2023

- Implemented hardware documentation repository reducing incident resolution time by 15% and improving technician efficiency by 2 hours weekly
- Established automated system update logging ensuring 99.9% uptime and security compliance
- Conducted client meetings to diagnose hardware issues, improving satisfaction by 25%

Machine Learning Intern, Quantera Analytics Solutions, Hyderabad August – December 2021

- Developed CNN models for image classification achieving 92% accuracy on test datasets
- Designed data preprocessing pipelines improving model generalization by 28%
- Applied optimization techniques reducing inference time by 35% while maintaining accuracy

Projects

Quantum ML for SUSY Classification — Python, PennyLane, NumPy, Scikit-learn GitHub

- Engineered quantum ML system for classifying supersymmetric particles, achieving ROC AUC scores of 0.70—exceeding classical benchmarks by 15%
- Created interactive dashboard visualizing performance metrics across different quantum configurations

Vulnerability Assessment on CPS — Python, OpenVAS GitHub

- Developed ML-powered vulnerability detection system with 90% accuracy—40% higher than traditional systems
- Implemented anomaly detection for zero-day threats, reducing false positives by 35%

Averex - Cryptocurrency Exchange — TypeScript, Compound API GitHub

- Built cryptocurrency platform with secure transactions and KYC verification, increasing trading volume by 40%
- Implemented real-time price tracking and comprehensive security measures processing $2M + intransactions$

Technical Skills

- **Languages:** Python, Java, C++, SQL, TypeScript
- **Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow
- **Tools:** Docker, Jenkins, Oracle, Node.js, Angular, Flask, NMAP, SPLUNK, UEBA
- **Platforms:** Azure, AWS, MySQL, SQL Server, Unix, Linux, Windows, macOS

Soft Skills & Certifications

- **Skills:** Communication, Problem-Solving, Leadership, Teamwork, Technical Documentation
- **Certifications:** IBM DevOps Engineering (April 2025), Python Programming (August 2021)