PRAJWAL DM

Research and Development Intern

PROFILE

I am a highly dedicated and motivated undergrad student currently in my 6th semester with a consistent GPA of 7.6. I have actively contributed to two research papers, with one already published in a reputed conference. In addition to my academic pursuits, I am working on an innovative cybersecurity project that explores the use of quantum methods to forge a fake transaction and validate them within blockchain systems, which reflect my keen interest in intersection of cybersecurity, block chain and quantum technologies.

INTERNSHIPS

Software Development Intern – SkillCraft Technology (Virtual)
November 2024 – December 2024

- Developed programs for temperature scale conversion, random number guessing game with attempts tracking, sudoku puzzle solving and web scraping to extract product information from e-commerce sites into structured CSV files

Student Research Assistant – Atria Institute of technology
October 2024 – June 2025

- Under Prof. Dr B.P. Pradeep Kumar on ASL Sign Recognition contributing to literature review, gaining insights from reference papers and driving impactful research advancements.

PROJECTS

ASL Gesture Recognition System – Developed an ASL gesture recognition system with over 90% accuracy, contributed to a research publication, and created a foundation for building real-time sign language translation tools using ML tools, enhancing accessibility for the Deaf community

KSL Gesture Recognition System – Developed a KSL (Kannada Sign Language) gesture recognition systems where we modified the previously done ASL work into our native language which helps the deaf community of a specific native region

Quantum Neural Network Simulator – Worked on simulating quantum circuits using neural networks, specifically Restricted Boltzmann Machines (RBMs). Applied this method to approximate key quantum operations like Hadamard and Fourier transforms on entangled input states. Achieved high accuracy comparable to noisy quantum hardware, demonstrating the potential of classical neural networks in quantum simulation.

QuantumLedger: A Blockchain Simulator- Built a blockchain transaction simulator using Stream-lit that demonstrates the creation, forging, and validation of transactions in a quantum-secure environment. Integrated Shor's algorithm to simulate quantum attacks on cryptographic keys, showcasing how quantum computing could impact traditional blockchain security.

EDUCATION

B.E in Computer Science and Engineering – Atria Institute of Technology
July 2022 – July 2023
Currently with a CGPA of **7.6** over 5 semesters

12th Std (Pre-University Education) – St Josephs Indian Composite PU College
June 2020 – May 2022
Graduated with an overall score of **78%**

10th Std (SSLC)- Little Lilly's English School
June 2010 – June 2020
Graduated with an overall score of **94%**

DETAILS

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Linkedin
https://www.linkedin.com/in/prajwaldm152004/

Git-Hub
https://github.com/prajwal152004

SKILLS

Python Programming
Machine Learning
Java Programming
HTML
CSS
JavaScript
React
Nodejs
Cyber Security Fundamentals
Computer Networks
DBMS
AWS (S3,DynamoDB,EC2)
Research Paper Content Writing

Languages

Kannada – Native
English – Highly Proficient
Hindi – Highly Proficient
German – Beginner A2
Japanese- Beginner A1