PRAJWAL DM

AI Engineer | Machine Learning | Deep Learning | Model Deployment

PROFILE

Results-driven **AI Engineer** passionate about designing, training, and deploying intelligent systems that deliver real-world impact. Experienced in **TensorFlow, Keras, and Scikit Learn** with a strong background in **Computer Vision, Deep Learning, and ML Pipelines**. Adept at optimizing model performance, managing large datasets, and integrating AI into production-ready applications. Currently expanding research toward the fusion of **AI and Cybersecurity** to build secure and adaptive intelligent systems.

WORK EXPERIENCE

Cyber Security Intern – FSID, **IISc Bangalore (On-site)**
October 2025 – November 2025

- Currently working on Applied AI-driven approaches for threat pattern recognition and anomaly detection.
- Gained practical exposure to risk analysis and secure model deployment in cloud environments.

Research and Development Lead – Cyber Security Club, **Atria IT (On-site)**
February 2025 – October 2025

- Led a team developing cybersecurity awareness and risk mitigation modules for institutional networks.
- Worked on technical reports evaluating threat intelligence and compliance measures.

PROJECTS (https://github.com/prajwal152004)

ASL Gesture Recognition System – Designed a TensorFlow CNN pipeline for recognizing American Sign Language gestures using real-time camera input. Achieved high classification accuracy with data augmentation and optimized training loops.

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 – Built a neural-network-based quantum circuit simulator using Restricted Boltzmann Machines (RBMs). Demonstrated hybrid quantum-classical model integration for educational and research applications.

A Blockchain Simulator- Developed a Stream-lit based blockchain simulator integrating quantum-secure transaction validation. Implemented real-time AI analytics dashboard for transaction anomaly detection.

ACHIEVEMENTS

- Selected for Cybersecurity Internship at IISc Bangalore, focusing on Cyber Security Systems.
- Research papers accepted for International Conference (Dec 2025) on AI-based Sign Language Recognition and a theory topic on Exploration of Quantum Advantage in Machine Learning
- Built multiple AI prototypes using TensorFlow, Keras, and Streamlit.

TECHNICAL SKILLS

Languages: Python, C++, SQL, JavaScript
Frameworks & Libraries: TensorFlow, Keras, PyTorch, Scikit-Learn, OpenCV, Pandas, NumPy
Core AI / ML: CNNs, Transfer Learning, Data Pre-processing, Model Optimization, Feature Engineering
Other Domains: Cybersecurity Foundations (OWASP Top 10)

EDUCATION

B.E in Computer Science and Engineering,
Atria Institute of Technology
July 2022 – July 2023
CGPA of **7.61** over 6 semesters

DETAILS

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Linked-in Profile
https://www.linkedin.com/in/prajwaldm152004/

PROFESSIONAL SKILLS

Analytical Thinking
Problem Solving
Client Collaboration
Research and Documentation
Business Communication

LANGUAGES

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