

Dheeraj N

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EDUCATION

Global Academy of Technology <i>Bachelor of Technology in Artificial Intelligence and Machine Learning</i>	2021 – Present CGPA: 8.53
Vidya Mandir Ind PU College <i>Pre-University Course, Karnataka PUC - Computers</i>	2019 – 2021 CGPA: 7.5

EXPERIENCE

Full-Stack Development Intern <i>DigiMogo</i> <ul style="list-style-type: none">Developed and deployed a scalable CRM SaaS platform to streamline client lifecycle management and enhance team productivity across departments.Built an internal webpage builder using React.js and RESTful APIs that enabled cross-functional teams to update the Articles page dynamically via a database-backed interface.Led the end-to-end deployment of two production-ready web portals and optimized structure and performance to enhance user accessibility and contribute to improved SEO visibility.Implemented responsive and accessible UIs using React.js, Bulma, and modern CSS, improving mobile experience and user engagement.	Jan 2025 – Jun 2025
Machine Learning Intern <i>Hindustan Aeronautics Limited (HAL)</i> <ul style="list-style-type: none">Engineered an AI-driven gaze detection system to enhance cockpit safety by enabling hands-free control of avionics.Developed and integrated blink detection algorithms for seamless pilot interaction with on-screen cockpit elements.Collaborated with industry experts to refine the system for real-world deployment in aviation.	Oct 2024 – Nov 2024

PROJECTS

EchoSight <i>YOLO, OpenCV, Face Recognition, TTS, Arduino IDE, ESP32, NodeMCU</i> <ul style="list-style-type: none">Developed an AI-powered assistive device that provides real-time audio descriptions for visually impaired users.Integrated YOLO for object detection, facial recognition for user identification, and text-to-speech (TTS) for verbal feedback.Collaborated with hardware teams to build a system using ESP32, NodeMCU, and ultrasonic sensors for enhanced environment perception.	Present
ASL Hand Sign Recognition <i>Python, OpenCV, MediaPipe, TensorFlow, CNN</i> <ul style="list-style-type: none">Developed a CNN-based deep learning model for real-time American Sign Language (ASL) gesture recognition.Built and labeled a custom dataset with 30+ hand gestures, improving model robustness and accuracy.Integrated OpenCV and MediaPipe for efficient hand tracking and gesture recognition, enhancing real-time performance.	2024
Eye Tracking Assisted Control System <i>OpenCV, MediaPipe, PyAutoGUI</i> <ul style="list-style-type: none">Developed an AI-powered hands-free system using eye-tracking and blink detection.Implemented facial landmark detection for accurate gaze monitoring and user intent recognition.Designed a real-time interface to track eye movements and control the cursor.	2024

TECHNICAL SKILLS

Programming Languages: Python, C, JavaScript, SQL
Machine Learning & AI: Deep Learning, Computer Vision, NLP, Reinforcement Learning, CNNs, RNNs, LSTMs, Transformer Models
Frameworks & Libraries: TensorFlow, PyTorch, Keras, OpenCV, Scikit-Learn, LangChain
Web Development: React.js, Next.js, Node.js, Flask, Bulma, Tailwind CSS
Developer Tools: Git, VS Code, PyCharm, Jupyter Notebook, Arduino IDE