NAGALLA VENKATA CHARISH YADAV

Artificial Intelligence | Machine Learning | Data Science | Deep Learning Enthusiast

■ +91 93926 88319 | ✉■ charish7968@gmail.com

■ LinkedIn: linkedin.com/in/nvcharishyadav | GitHub: github.com/nvcharishyadav

■ Coimbatore, Tamil Nadu

CAREER OBJECTIVE

To leverage advanced Artificial Intelligence and Data Science techniques to design scalable, data-driven systems that empower innovation, optimize real-world decision-making, and contribute to global technological advancement through intelligent automation.

PROFESSIONAL SUMMARY

Highly motivated AI & Machine Learning Engineer with a strong foundation in Python, Deep Learning, and Reinforcement Learning. Experienced in developing predictive, analytical, and automation-driven AI solutions across biomedical, financial, and IoT domains. Demonstrated ability to bridge theoretical research with hands-on development — from data preprocessing to model deployment. Passionate about building intelligent systems that combine data analytics, neural networks, and automation to create tangible societal impact.

EDUCATION

Bachelor of Technology in Artificial Intelligence & Machine Learning
Amrita Vishwa Vidyapeetham, Coimbatore (2022–2026)
• Coursework: Deep Learning, Computer Vision, Reinforcement Learning, Cloud Computing, NLP
• Research Electives: Biomedical Signal Processing, Ethical AI Design
• Academic Highlights: Ranked top 15% in program; contributed to college AI innovation club as student developer.

Intermediate (MPC) — Narayana Junior College, Vijayawada (2022) — Percentage: 77%
Secondary School Certificate (SSC) — Dr. KKR’s Gowtham High School, Vijayawada (2020) — GPA: 10/10

TECHNICAL SKILLS

Programming: Python (Advanced), C++, JavaScript
AI/ML Frameworks: TensorFlow, Keras, Scikit-learn, PyTorch, Pandas, NumPy, OpenCV
Data Science Tools: Matplotlib, Seaborn, Streamlit, Tableau, Jupyter Notebook
Reinforcement Learning: Q-Learning, DQN, Policy Gradients, OpenAI Gym
Web Development: HTML, CSS, React.js, Flask, REST APIs
Database & Cloud: MySQL, SQLite, Firebase (Basic), Git/GitHub
Embedded & IoT: Arduino, ESP32, MyoWare Sensor Integration

INTERNSHIPS

AI/ML Intern — Labmentix (July 2025 – Ongoing)
• Designing predictive AI models for biomedical signal analysis and diagnostic automation.
• Implemented ML pipelines using TensorFlow and Scikit-learn to identify anomalies.

• Collaborated with researchers to deploy ML prototypes on ESP32 microcontrollers.

Web Development Intern — Qveto Technologies (June 2025 – September 2025)
• Developed interactive web applications using React.js and Flask for analytics dashboards.
• Improved performance by 30% through optimized API integration.
• Coordinated with backend teams to ensure seamless deployments via Git.

PROJECTS

1. EMG-Controlled Prosthetic Arm with Gesture Recognition
Developed an AI-driven prosthetic arm interpreting EMG signals to control servo motors. Achieved 90% accuracy and showcased at Amrita TechFest 2025.

2. Maze Solver using Reinforcement Learning with Web UI
Built a Q-Learning-based maze solver with React + Flask visualization reducing training time by 40%.

3. Bank Stock Closing Price Prediction
Created data pipelines and ML models achieving MAE < 2%, deployed with Streamlit UI.

4. Traffic Control System using Reinforcement Learning
Trained RL agent in OpenAI Gym to reduce congestion by 35%.

5. Drowsiness Detection System
Implemented EAR-based detection and alert system using OpenCV and Dlib.

RESEARCH & PUBLICATIONS

Predictive Modeling of Biomedical Signals Using Deep Neural Networks (IEEE Conference Paper — In Progress)
This research explores deep learning architectures for EMG signal classification to enhance prosthetic control accuracy and reduce latency in biomedical applications. Proposed CNN-LSTM hybrids improve recognition and noise reduction.

ACHIEVEMENTS & LEADERSHIP

• Finalist — “AI for Healthcare” Hackathon 2025 by NVIDIA & Amrita Innovation Hub.
• Recognized by faculty for innovative prosthetic gesture control research.
• Team Lead for 3-member AI automation project for campus management.
• Mentor for juniors at Amrita AI & Robotics Club.
• Active open-source contributor to reinforcement learning and biomedical AI projects.

AREAS OF INTEREST

Biomedical Signal Processing • AI for Robotics & Automation • Reinforcement Learning • Data Analytics • Human-AI Interaction • Full-Stack AI Integration • Hackathons & Research Collaboration

PERSONAL ATTRIBUTES

Analytical and innovative thinker • Quick learner • Team player • Strong presentation & problem-solving skills • Dedicated to continuous learning and ethical AI development

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and belief. I take full responsibility for the authenticity of the details mentioned in this resume.

Place: Coimbatore Date: _____ Signature: N. V. Charish Yadav