ADITYA JILLA

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EDUCATION

Vishwakarma Institute of Technology, Pune *B.Tech in Electronics and Telecommunication Engineering* — *09/2023 - Present, CGPA: 8.07*

Government Polytechnic, Solapur *Diploma in Electronics and Telecommunication Engineering* — *08/2020 – 04/2023, 89.53%*

VidyaNiketan High School *Secondary School Certificate (SSC)* — *03/2019, 83.60%*

PROFESSIONAL EXPERIENCE

Embedded Systems Engineer Intern *Vertex Technosys* View Certificate — *Solapur, 01/2023 – 02/2023*

- **Engineered** Arduino-based embedded systems with 4+ sensors, reducing response time by 35%
- **Implemented** hardware-software prototypes with optimized circuit design for 3 client projects
- **Resolved** 12+ complex system issues while collaborating with a 5-member cross-functional team

INDUSTRY PROJECT

Real-Time Vehicle Parameter Monitoring System — *01/2023 – 07/2023*

I4C Industry Project GitHub

- **Developed** TI MSPM0G3507 Arm Cortex-based monitoring system integrating 6 vehicle sensors
- **Created** data visualization dashboard processing 200+ data points/second with 99% accuracy
- **Optimized** performance metrics achieving 42% improvement in operational intelligence

ACHIEVEMENTS

Finalist at Medicro Healthcare Hackathon *Medicro Hackathon* Certificate — *2023*

- **Designed** AI-driven healthcare solution competing among 150+ teams, reaching top 8 finalists
- **Built** scalable platform analyzing 10,000+ patient records with 92% diagnostic accuracy
- **Led** 4-member team to create a healthcare prototype recognized by 3 industry partners

TECHNICAL PROJECTS

Potato Disease Classification using Deep Learning — *GitHub*

- **Engineered** CNN-based system achieving 97% accuracy in classifying 3 categories of potato diseases
- **Optimized** model processing 1,500+ images with advanced preprocessing techniques

Surveillance Robot Using ESP32-CAM — *GitHub*

- **Developed** IoT surveillance system with real-time streaming supporting 720p resolution at 25fps
- **Implemented** web interface with authentication handling 5+ simultaneous monitoring connections

AI-Based Voice Conversion System — *GitHub*

- **Engineered** CycleGAN architecture achieving 85% voice similarity across 200+ test samples
- **Optimized** PyTorch training pipeline reducing computational overhead by 40% for audio processing

NexusShell - Custom Shell Application — *GitHub*

- **Architected** modular shell with 15+ commands and extensible plugin system handling 8 file formats
- **Developed** utilities for file operations, text processing, and network diagnostics used by 50+ users

TECHNICAL SKILLS & CERTIFICATIONS

Programming: C, Java (DSA), Python (NumPy, Pandas, TensorFlow, Sklearn)
Technical Domains: Embedded Systems, Machine Learning, Deep Learning, IoT
Tools & Platforms: Arduino, ESP32, MySQL, Firebase, Jupyter Notebooks
Certifications: NVIDIA Deep Learning (2023) Certificate, Deep Learning Specialization (Coursera, 2025) Certificate
Languages: English (Professional), Telugu (Native), Hindi (Fluent), Marathi (Fluent)