

Devrajsinh Jhala

997874776 | [Email](#) | [LinkedIn](#) | [Github](#)

EDUCATION

BITS Pilani, K.K. Birla Goa Campus | CGPA: 9.41

Masters in Engineering in Computer Science and Information Systems

Sancoale, Goa

Aug. 2024 – July 2026

Pandit Deendayal Energy University | CGPA: 9.64

Bachelors in Technology in Computer Science and Engineering

Gandhinagar, Gujarat

Aug. 2020 – Aug 2024

EXPERIENCE

SWE Intern

Mediatek

January 2026 - Present

Bangalore, Karnataka

- Architected a production-grade optimization engine (custom-dl-optimizer) published on PyPI that reduces inference latency by an average of **2.1x** across diverse CNN architectures.
- Authored high-performance OpenAI Triton kernels to bypass standard framework overhead, implementing block-level memory management and operator fusion for activation layers.
- Achieved significant throughput gains on industry-standard models (NVIDIA T4): **2.47x** speedup on ResNet-50, **2.24x** on VGG-16, and **2.06x** on MobileNet-V2 and EfficientNet-B0.
- Developed and debugged kernel-level modules using WDF/DMF and system debugging tools (WinDbg, TraceView)

AI Software Developer Intern

Thinkbyte AI

April 2024 – July 2024

Bangalore, Karnataka

- Built LangChain-based pipelines for automated SEO content generation
- Developed a lead generation system using SerperAPI and OpenAI APIs
- Improved website SEO performance using Google Search Analytics data

PROJECTS

TriPathSNR – GNN-based SNR Prediction | Python, PyTorch

June 2025 – July 2025

- Developed a Graph Neural Network model trained on **80K+** samples for SNR prediction
- Achieved **43.16 dB** accuracy with **<30ms** inference latency
- Improved performance by **15–20%** compared to existing approaches

ResearchPlots | Python, Matplotlib, PyPi

January 2025 – February 2025

- Built and published a Python library for generating publication-ready plots
- Designed for IEEE and Springer formats to streamline research workflows
- Improved visualization efficiency and reproducibility

ACHIEVEMENTS

Winner, Logithon 2025 Hackathon (IIT Bombay)

Solved 300+ DSA problems across LeetCode

PUBLICATIONS

Smartphone Sensor Data Fusion: A Joint Learning Approach to Activity Recognition | Link

- Published at **International Conference on Pattern Recognition (ICPR)**
- Developed a hybrid **CNN-LSTM + Transformer** model for human activity recognition
- Achieved **98% accuracy and 98% F1-score**, outperforming existing approaches by **2%**

TECHNICAL SKILLS

Languages: Java, Python, C/C++

ML/AI: TensorFlow, PyTorch

Libraries: NumPy, pandas, Matplotlib

Systems: Linux, Windows, Operating Systems, Kernel Debugging (WinDbg, WDF/DMF), UEFI

Tools: Git, Docker