

Manohar Gehlot

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OBJECTIVE

Aspiring AI/ML developer with a strong foundation in deep learning and full-stack development, eager to build real-world solutions and grow through hands-on experience.

EXPERIENCE

AI/ML Intern — JBcodeapp, Surat, Gujarat

May 2025 - Present

Project: Terminal Based Agentic Coding Tool — ADK, MCP, RAG, Lite LLM

- Building a terminal-based AI coding assistant using local LLMs, Google's ADK, and MCP for automated code generation, debugging, and feature integration.
- Integrated multi-agent orchestration workflows, optimizing for productivity in large codebases.

EDUCATION

B.Tech in Artificial Intelligence & Data Science, Uka Tarsadia University

CGPA: 8.48 (2022–Present)

PROJECTS

GPTini — PyTorch, Transformers, NLP [GitHub](#)

- Built a character-level Transformer model implementing multi-head self-attention and dynamic training for efficient text generation on mid-range GPUs.
- Designed a modular codebase allowing rapid experimentation with different model sizes and hyperparameters.

DCGAN for Face Generation — PyTorch, GANs [GitHub](#)

- Engineered a Deep Convolutional GAN (DCGAN) in PyTorch and trained it on 200K+ CelebA images to synthesize high-fidelity human face images.
- Applied advanced GAN training techniques (batch normalization, label smoothing, gradient clipping) to avoid mode collapse and improve image fidelity.

Madrin Neural Network Library — Python, NumPy [GitHub](#) | [PyPI](#)

- Developed a modular neural network library from scratch in Python/NumPy, enabling end-to-end model training with custom forward and backward propagation.
- Implemented core components including a class-based layer system, SGD optimizer, model checkpointing, and training-loss monitoring.

Neural For All Dashboard — MERN Stack, TensorFlow.js [GitHub](#)

- Developed a dashboard enabling browser-based neural network creation, training, and visualization with TensorFlow.js.
- Integrated real-time visualization of model performance metrics during training sessions.

SKILLS

Programming: C, C++, Java, Python

Frameworks: PyTorch, TensorFlow, Keras, Agent Development Kit

Libraries: NumPy, Pandas, Matplotlib, Scikit-learn

Web & Database: HTML, CSS, JavaScript, React, Node.js, Express, Flask, Django, MongoDB, MySQL

Blockchain & Web3: Ethereum, Solidity, IPFS, Web3.js, Ethers.js

Tools: Git, GitHub, Docker, Postman, n8n

Workshops and Training Programs

- Gemini as a Judge for RAG Evaluation (AI Surat), April 2025
- End-to-End Machine Learning (UTU), Sep 2024
- Recent Advancements in AI & Robotics (SVNIT), Jul 2024

ACHIEVEMENTS

- Secured **All India Rank 663 in GATE** (Data Science & AI) 2025.
- Top 7** finalist at Odoo x Amalthea Hackathon 2024, IIT Gandhinagar.
- Built a peer-to-peer compute marketplace at **Higgs-a-thon 2025, a 56-hour hackathon**.