TOHEED AKHTAR

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Education

Techno India NJR Institute of Technology, Udaipur (RTU)   **2022 - 2026**
B.Tech in Computer Science & Engineering   *8.0/10 CGPA*

Work Experience

Chirpn AI   **March 2025 – Oct 2025**
AI/ML Intern   *Pune, Remote*

- Created **Coding, Github, Jira agents** from scratch using Crewai
- Owned development of workflow and reduced token usage by agents by **85%.**
- Created **A2A, MCP** protocols and custom tools for github, jira and file operation.
- Built and deployed agentic workflows in Production using **Langgraph, Docker**
- **Finetuned Llama and OS vision models** for handwritten text recognition with 95% accuracy.

buildspace   **Aug 2024 – Sep 2024**
Full Stack Developer   *San Francisco Bay Area , Remote*

- Selected for a 6-week program funded by **Y Combinator, a16z**
- Built a tech product along a global community on Nightz&Weekends
- Independently built and scaled an MVP to 1000+ hits

Projects

LLM-from-Scratch: Mimicked GPT2 architecture from scratch in Python and PyTorch   **Source Code**

- Developed all from **tokenization** to **pre-training** to **fine-tuning** using Python and PyTorch.
- Trained a **127M** parameter model on **CPU**.
- Achieved **46.8%** performance against Llama3-8B.

Gemma3-GenZ: Fine-tuned Gemma3-270M for Gen-Z style conversations   **HuggingFace**

- Curated and prepared a synthetic dataset of over 120 Gen-Z college conversations with slang and casual dialogue.
- Fine-tuned Gemma3-270M using **Parameter-Efficient Fine-Tuning (PEFT)** with **LoRA** and **SFTTrainer**.
- Used Hugging Face Transformers, PyTorch, and Python, TRL.
- Produced a fine-tuned model that generates contextually relevant and natural Gen-Z style responses.

Research Implementations: Implementations of **research papers** and ml concepts   **GitHub**

- Implementations of research paper from scratch in PyTorch.
- Implementations of ML/DL concepts in python.
- Includes **MHA, RoPE, BPE, RNN, AlexNet**.

Technical Skills

Languages: Python, Rust, C, C++, JavaScript, TypeScript
ML: PyTorch, Langgraph, scikit-learn, NumPy, Pandas, Matplotlib, HuggingFace, CrewAI
Backend: FastAPI, Django, Node.js, Express.js
Fronted: React, Angular, TailwindCSS, HTML, CSS, Bootstrap
Databases: PostgreSQL, MongoDB, Redis
Others: Docker, Postman, Cursor, Copilot, GitHub, Jupyter, Colab

Achievements

NIT Goa 0xGenIgnite Winner: Won a National level Web3 Hackathon held at NIT Goa.
Logithon'25 IITB Finalist: Finalist / Top 5 of India's Biggest Logistics Hackathon held at IIT Bombay
World Computer Hacker League: National Qualifier of WHCL'25