TOHEED AKHTAR

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Education

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

Work Experience

Chirpn AI · March 2025 – Present
AI/ML Intern · *Remote*

- Implemented coding & github agentic workflow in Superagi
- Created **Coding, Github, Jira tools & agents** from scratch using Crewai
- Improved workflow performance by **80%**
- **reduced token usage by agents by 85%.**
- Created **MCP** and its tools for github, jira and file operation.
- Integrated MCP server into workflows using **custom adapters**.
- Also worked on **support automation, OCR, Vison Models.**

IBM · Jun 2023 – Sep 2023
Data Analyst - Intern · *Remote*

- Trained multiple models
- Prepared and processed datasets to 99% completeness and consistency
- stack used: **jupyter, Pandas** for data analysis, **sklearn** for building models.
- Collaborated with teams and made a music recommender system

Projects

llm-scratch: Built an LLM from scratch in python and PyTorch. — [Source Code]

- Built an LLM from tokenization to fine-tuning in **Python, and PyTorch.**
- Trained a **127M** model on **CPU**.
- Scored **46.8%** against **Llama3-8b**.

beatSync : KNN based music recommender — [Source Code]

- Model trained on **3200** songs.
- Uses features such as **Dancebility, Energy & Popularity**.
- Built using **ReactJS, Flask, Sklearn** and deployed using **Vercel and Render**.

RDR2-Journal : Advanced Book Rendering — [Source Code]

- Replica of Journal from the game **RDR2**
- **Advanced book rendering using ReactJS, Tailwind and TypeScript**.
- Loved by **RDR2 community online**.

Semantic-chunking-yt: extract meaningful segments from YouTube — [Source Code]

- Takes url of YouTube video and gives meaningful segments with timestamps.
- Built using **HuggingFace, PyTorch, Python**.
- Deployed on **HFSpaces** using **Gradio**.

Technical Skills

Languages: Python, C, C++, JavaScript, TypeScript
ML: PyTorch, TensorFlow, sickit-learn, NumPy, Pandasm Matplotlib
Backend: FastAPI, Django, Node.js, Express.js
Frontend: React, Angular, TailwindCSS, HTML, CSS, Bootstrap
Clouds & Databases: GCP, SQl, MongoDB
Developer Tools: Postman, VS Code, GitHub, Jupyter

Achievements

Lenden's TMP: Runner up in Problem Statement to build Multilingual AI Sales Assistant.
Logithon'25 IITB Finalist: Finalist/Top 5 of India's Biggest logistics hackathon held at IIT Bombay
Under 300th builder: 318th builder globally in buildspace S3
SIH : Internal SIH 2024 winners out of 32 teams.