MAYANK BOHRA

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Experience

JK Lakshmipat University   August, 2023 - Present
Teaching Assistant   Jaipur, Rajasthan, India
- Provided hands-on assistance to students during lab sessions.
- Implemented active learning strategies.
- Assisted in the evaluation of students' performance.

Dexpert Systems PVT. LTD.   June, 2023 - August, 2023
Junior Software Developer   Pune, Maharashtra, India
- Developed Progressive Web App using ReactJS.
- Built a Management System with HTML, Bootstrap, C#, ASP.NET.
- Upgraded Mobile Application version using Dart and Flutter.
- Implemented dynamic functionality to existing website tables using Java and Struts 2.0.
- Created two dynamic payment dashboards using HTML, Bootstrap, Java, Struts 2.0, and MySQL.

Projects

ML Bot | *Python, Machine Learning, LLM, RAG, Transformers, PyTorch, GenAI*   *Source Code | Live*
- Built a real-time RAG (Retrieval Augmented Generation) pipeline for locally querying PDF-based Machine Learning books.
- Integrated 'all-mpnet-base-v2' for embeddings and 'google/gemma-2b-it' for low-latency LLM responses.

Transformer Model from Scratch | *Python, LLM, Transformers, PyTorch*   *Source Code | Live*
- Developed the Transformer model from scratch based on "Attention is All You Need."
- Implemented all the blocks of the encoder and decoder, present in the transformer architecture.

MelodyNet | *Python, Deep Learning, CNN, Flask, ReactJs*   *Source Code | Live*
- Developed a CNN-based music genre classifier achieving 92.55% validation accuracy using mel-spectrograms from the GTZAN dataset.
- Deployed a memory-optimized model on Render.com, showcasing full-stack skills within resource constraints.

Cold Email Generator Tool | *Python, Streamlit, Langchain, GenAI*   *Source Code | Live*
- Built a Cold Mail Generator using Groq, Langchain, and Streamlit to automate personalized email outreach from job listings.
- Integrated a vector database for fast, low-latency personalized email generation.

CareAI: Personalized Medical Advisory System | *Python, Flask, Machine Learning*   *Source Code | Live*
- Built CareAI, leveraging machine learning to predict diseases from symptoms with a speech recognition interface.
- Used Python (Flask) for the backend and HTML and CSS (Bootstrap 5) for frontend, delivering an interactive platform for disease insights

Education

JK Lakshmipat University   2021 - 2025
Bachelor of Technology in Computer Science & Artificial Intelligence   CGPA: 9.02

Relevant Coursework

- Data Structures
- Analysis of Algorithms
- Operating System
- Computer Networks
- DatabaseManagement
- Artificial Intelligence
- Machine Learning
- Large Language Models

Technical Skills

Languages: Python, Java, C++, JavaScript
Database: MySQL, SQLite
Machine Learning & Data Science: PyTorch, Tensorflow, scikit-learn, Transformers (Hugging Face), Numpy, Pandas
Web Development: MongoDb, ExpressJs, ReactJs, NodeJs
Version Control: Git, Github