Mitul Khemani

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EDUCATION

The LNM Institute of Information Technology **Jaipur, India**
Bachelors of Technology (B.Tech), CGPA: 8.16 *August 2023 - May 2027*

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL
Libraries: PyTorch, TensorFlow, Sklearn, Pandas, Numpy, Seaborn, Matplotlib
Machine Learning: Natural Language Processing, Transformers, Retrieval Augmented Generation
Deployment: Git, GitHub, Docker, CI-CD Pipelines, FastAPI, Flask, AWS Cloud

PROJECTS

Auto Healing Customer Chat Support System **GitHub**
Transformers - BERT, GPT, Data Pipelines, Fast API *January 2026*

* Designed an auto-healing customer chat support system using BERT for intent classification and GPT for contextual response generation to automate issue resolution also implemented system to connect to human agent.
* Implemented ETL pipelines to ingest, clean, and structure historical customer support data, enabling efficient retrieval and continuous learning from past interactions achieving approximately 80% classification accuracy.
* Developed a FastAPI-based backend to serve real-time chat responses, feedback logging, and automated model updates for improved support accuracy over time.

E-Commerce Competitor Price and Stock Recommendation **GitHub**
Web Scraping, ETL Pipelines, XGBoost, Docker, CI-CD Pipelines *December 2025*

* Built an automated competitor price monitoring system that runs daily to fetch, clean, and process current pricing and stock data across e-commerce platforms using web scraping.
* Implemented an XGBoost-based pricing and stock recommendation model achieving 82% accuracy, with automated daily retraining to predict next-day customer demand based on market trends.
* Developed a Streamlit-based frontend for interactive usage and deployed the system using Docker with CI/CD pipelines, reducing deployment time by 60%.

Real Time Stock Price Prediction System **GitHub**
Time Series, LSTM, ETL Pipelines, Flask, YFinance *November 2025*

* Developed an end-to-end real-time stock price prediction system using LSTM with automated data fetching, cleaning, and preprocessing based ETL pipelines.
* Designed separate forecasting workflows for next-day (long-term) and next-minute (short-term) predictions, with dynamic retraining support for any stock ticker.
* Deployed a Flask-based API and deployed on Render to enable automatic live data ingestion and real-time stock price predictions.

Guru Setu: AI Teacher Support System **GitHub**
Generative AI, Rag Model, Whisper, Google OAuth, Gemini *October 2025*

* Developed an AI-powered teacher support system integrating Generative AI and RAG to generate questions, summaries, schedules, and voice-based assistance for educators.
* Conducted real-world market analysis by evaluating the system with 50+ academic queries and curriculum documents, achieving 80% response relevance and accuracy.
* Implemented a voice-enabled interface and deployed the application for live usage, demonstrating end-to-end functionality across text, speech, and retrieval-based AI modules.

ACHIEVEMENTS

* Team Leader and Hackathon Finalist at NIT Delhi for the Guru Setu project, selected among top teams for technical innovation and problem solving.
* Branch Topper in Electronics and Communication Engineering Branch for academic excellence.

EXTRACURRICULAR ACTIVITIES

* Content Creation Member in IEEE Student Branch at LNMIIT