Mahika Jain

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EDUCATION

The LNM Institute of Information Technology (LNMIIT)
B.Tech in Computer Science and Engineering, CGPA: 8.10

Jaipur, India
Aug 2022 - May 2026

Central Academy
Class 12th, CBSE Board - 96.6%

Alwar, India
2022

Silver Oak School
Class 10th, CBSE Board - 96%

Alwar, India
2020

GATE 2025 (Data Science and AI)
AIR: 3947

2025

JEE Exams
Mains Percentile: 97.3% (Top 3%), Advanced AIR: 17736

2023

INTERNSHIP EXPERIENCE

DataTech Analytics
Machine Learning Intern

Jaipur, India
Dec 2023 - Feb 2024

- Developed generative AI workflows using Python and LangChain for document processing automation
- Implemented RAG pipelines with vector databases (FAISS, Chroma) and built Streamlit frontends
- Worked on ML models using TensorFlow/PyTorch and deployed on Google Cloud Platform
- Created prompt templates and LangChain agents for enhanced LLM interactions

TECHNICAL SKILLS

Languages:	C++, Java, Python
AI/ML Frameworks:	TensorFlow, PyTorch, LangChain, Scikit-learn
Web/Frameworks:	Django, React, Tailwind CSS, REST API, Streamlit, Gradio
Databases:	PostgreSQL, Vector Databases (FAISS, Chroma, Pinecone)
Tools:	Git, VS Code, PyCharm, Jupyter Notebooks
Cloud & DevOps:	Google Cloud Platform (GCP), API Integration
AI Specialties:	RAG, Prompt Engineering, Generative AI, LLM Applications, Network Graph Visualization

PROJECTS

AI-Powered Legacy System Migration Assistant   github.com/mahik-j/ai-migration-assistant
Python, LangChain, RAG, Vector Databases, Streamlit

- Built an AI solution for automating Oracle to PostgreSQL migration analysis and planning
- Implemented RAG pipeline using vector databases to process legacy system documentation
- Developed LangChain agents for automated code assessment and migration recommendations
- Created interactive frontend using Streamlit for real-time migration progress tracking

Generative AI Workflow Optimization Platform   github.com/mahik-j/generative-workflow-optimizer
Python, LangChain, TensorFlow, GCP, REST API

- Designed and implemented generative AI workflows for enterprise transformation projects
- Integrated multiple LLMs with custom prompt templates for domain-specific task automation
- Built RESTful APIs for seamless integration with existing enterprise systems
- Deployed scalable solution on Google Cloud Platform with proper monitoring and logging

Mocktopus – Peer-to-Peer Mock Interview Platform   github.com/mahik-j/mocktopus
React, Tailwind CSS, WebSockets

- Built a Django-inspired real-time interview platform supporting authentication, scheduling, and collaborative coding
- Integrated video calling and real-time peer interaction using WebSockets
- Focused on responsive and smooth UI with React and Tailwind, currently extending backend services and deployment

Model-Oriented LTS – ML-based Intelligent Transportation System   github.com/mahik-j/intelligent-transport-system
Python, TensorFlow, XGBoost, TF-IDF, SMOTE, Ensemble Models

- Built a machine learning system to classify dialogues in Traffic scenarios enhancing communication in Intelligent Transportation Systems (ITS)
- Implemented and benchmarked 5+ ML models from Logistic Regression to advanced 86.05% accuracy Tree Classifier
- Engineered a complete ML pipeline with TF-IDF vectorization, SMOTE augmentation, and ensemble-based evaluation

Enterprise RAG Document Processing System

Python, LangChain, Vector Databases, FastAPI

- Developed advanced RAG system for processing enterprise documents with multi-modal support
- Implemented custom vector embedding strategies using multiple vector databases (FAISS, Chroma)
- Built efficient document chunking and retrieval mechanisms for large-scale document processing
- Created RESTful APIs using FastAPI for seamless integration with enterprise applications

Bug Tracking System

Django, React, PostgreSQL, REST API

- Developed a full-stack bug tracking platform with role-based access for admins, developers, and testers
- Built RESTful APIs in Django for secure communication with a React-based frontend
- Implemented comprehensive project and user management with PostgreSQL database integration

POSITIONS OF RESPONSIBILITY

AI/ML Lead, CodeSoc LNMIIT:

Led AI/ML workshops and mentoring initiatives.

Coordinator, Gender Cell LNMIIT:

Organized events promoting gender equality and awareness.

AWARDS AND HONORS

2nd Place – Ideation Competition: Won 2nd place in Literary Intra-College Ideation Competition.

Finalist – Rajasthan Police Hackathon: Recognized for innovative solution in state-level competition.

Pupil – Codeforces: Competitive programmer with 'Pupil' rank on Codeforces.

AI/ML Excellence Award: Recognized for outstanding performance in machine learning internship projects.