

# Mahika Jain

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Portfolio site: [mahik-j.github.io](https://mahik-j.github.io) •• Personal site: [mahika-jain.com](https://mahika-jain.com)

## EDUCATION

<b>The LNM Institute of Information Technology (LNMIIT)</b> <i>B.Tech in Computer Science and Engineering, CGPA: 8.10</i>	Jaipur, India <i>Aug 2022 - May 2026</i>
<b>Central Academy</b> <i>Class 12th, CBSE Board - 96.6%</i>	Alwar, India <i>2022</i>
<b>GATE 2025 (Data Science and AI)</b> <i>AIR: 3947</i>	<i>2025</i>

## INTERNSHIP EXPERIENCE

<b>DataTech Analytics</b> <i>Machine Learning Intern</i>	Jaipur, India <i>Dec 2023 - Feb 2024</i>
<ul style="list-style-type: none"><li>- Developed generative AI workflows using Python and LangChain for document processing automation</li><li>- Implemented RAG pipelines with vector databases (FAISS, Chroma) and built Streamlit frontends</li><li>- Worked on ML models using TensorFlow/PyTorch and deployed on Google Cloud Platform</li><li>- Created prompt templates and LangChain agents for enhanced LLM interactions</li></ul>	

## TECHNICAL SKILLS

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

## PROJECTS

<b>AI-Powered Legacy System Migration Assistant</b> <i>Python, LangChain, RAG, Vector Databases, Streamlit</i>	<a href="https://github.com/mahik-j/ai-migration-assistant">github.com/mahik-j/ai-migration-assistant</a>
<ul style="list-style-type: none"><li>- Built AI solution for Oracle to PostgreSQL migration analysis with RAG pipeline using vector databases</li><li>- Developed LangChain agents for automated code assessment and created Streamlit frontend for tracking</li></ul>	
<b>ML-based Intelligent Transportation System</b> <i>Python, TensorFlow, XGBoost, SMOTE</i>	<a href="https://github.com/mahik-j/intelligent-transport-system">github.com/mahik-j/intelligent-transport-system</a>
<ul style="list-style-type: none"><li>- Built ML system for traffic dialogue classification achieving 86.05% accuracy with ensemble methods</li><li>- Implemented complete ML pipeline with TF-IDF vectorization and SMOTE augmentation</li></ul>	
<b>Mocktopus – Peer-to-Peer Mock Interview Platform</b> <i>React, Django, WebSockets, PostgreSQL</i>	<a href="https://github.com/mahik-j/mocktopus">github.com/mahik-j/mocktopus</a>
<ul style="list-style-type: none"><li>- Built real-time interview platform with authentication, video calling, and collaborative coding features</li><li>- Integrated WebSockets for peer interaction and developed responsive UI with React and Tailwind</li></ul>	

## POSITIONS OF RESPONSIBILITY

<i>AI/ML Lead, CodeSoc LNMIIT:</i>
Led AI/ML workshops and mentoring initiatives.
<i>Coordinator, Gender Cell LNMIIT:</i>
Organized events promoting gender equality and awareness.

## AWARDS AND HONORS

<b>2nd Place – Ideation Competition:</b> Won 2nd place in Literary Intra-College Ideation Competition.
<b>Finalist – Rajasthan Police Hackathon:</b> Recognized for innovative solution in state-level competition.
<b>Pupil – Codeforces:</b> Competitive programmer with 'Pupil' rank on Codeforces.