

Megha Kirpan

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SUMMARY

CSE (AIML) undergraduate with hands-on experience in AI/ML and full-stack application development. Skilled in Python, FastAPI, React, MERN, SQL, NLP, and Transformer-based models. Experienced in developing AI-powered solutions, database migration systems, and responsive web applications.

SKILLS

Programming Languages: Java, Python, C, C++, JavaScript

Web Development: MERN Stack, HTML, CSS, React, FastAPI

Databases: MySQL, PostgreSQL, MongoDB, CouchDB

AI/ML: Artificial Intelligence, NLP, Transformer Models, TextRank

Tools & Platforms: Git, GitHub, Google Cloud, Microsoft Azure, Jupyter Notebook, VS Code

EDUCATION

Btech CSE (AIML) 2023 – 2027

CGPA: 7.75

Ramdeobaba College of Engineering and Management Nagpur, Maharashtra

Related Coursework: Data Analysis, Software Engineering, Operating Systems, Artificial Intelligence, DBMS

XIIth PCMB – 67% 2021 – 2023

St. George Junior College Nagpur, Maharashtra

Xth – 84.20% 2021

St. Ursula Girls School Nagpur, Maharashtra

UNIVERSITY PROJECTS

QueryVista – AI-Powered Database Migration Platform June 2026

- Developed an AI-assisted database migration platform using FastAPI, React, Python, and Azure OpenAI GPT-4o.
- Built 8 bidirectional migration pipelines across MySQL, PostgreSQL, MongoDB, and CouchDB databases.
- Implemented AI-driven schema translation with Human-in-the-Loop (HITL) validation and real-time migration tracking.
- Developed a dual-database natural language query engine for automated post-migration validation and data integrity comparison.

StaySphere – Airbnb Clone July 2026

- Developed a full-stack Airbnb-inspired accommodation booking platform using the MERN stack.
- Implemented user authentication, property listings, image uploads, booking-ready workflows, and MongoDB integration.
- Followed MVC architecture with REST APIs, responsive UI, and secure backend validation.

Medical Research Paper Summarization Tool March 2026

- Developed an AI-based medical research paper summarization system using NLP and Transformer models.
- Implemented extractive (TextRank) and abstractive (Transformer-based) summarization techniques.
- Built a full-stack application using FastAPI and an interactive frontend for seamless user experience.
- Integrated PDF upload, automated text extraction, and intelligent summarization workflows.

CERTIFICATIONS

- DevOps, DataOps, MLOps – Duke University
- MLOps Platforms: Amazon SageMaker and Azure ML – Duke University
- Python Essentials for MLOps – Duke University
- Cloud Data Engineering – Duke University
- Introduction to Generative AI – Duke University
- Applied Statistics for Data Analytics – DeepLearning.AI