

Mridul Mahajan

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github.com/mridulmahajan04

Technologies

Languages: Java, SQL

Core CS Concepts: Object-Oriented Programming (OOP), Data Structures Algorithms, Database Management Systems

Frameworks Tools: Flask, Docker, Numpy, Pandas

Education

Thapar Institute of Engineering and Technology, BE in Computer Science Sept 2023 – June 2026

Government Millennium Polytechnic College, Diploma in Computer Science Aug 2020 – June 2023

Experience

Deloitte Austrailia Technology Job Simulation on Forage July 2025

- Completed a job simulation involving development and coding
- Wrote a proposal for creating a dashboard

Tata Data Visualisation July 2025

- Completed a simulation involving creating data visualizations for Tata Consultancy Services
- Prepared questions for a meeting with client senior leadership

Projects

Student Performance Prediction Github

- Built an end-to-end ML pipeline with EDA, feature engineering, and CatBoost to predict student performance.
- Deployed a scalable Flask web app using Docker; implemented logging and exception handling for maintainability.

Network Security System Github

- Developed an ML model to classify websites as malicious or benign using Python and scikit-learn.
- Integrated MongoDB for scalable data storage and deployed via Docker with CI/CD pipelines (GitHub Actions).

Ecommerce website Github

- Built a full-stack e-commerce web app with Flask, SQLAlchemy, and MySQL, including login, cart, checkout, and admin panel.
- Implemented secure authentication, optimized database queries, and used caching to improve performance.
- Utilized classic algorithms (quicksort for product sorting) and data structures (dictionary cache) to demonstrate computer science fundamentals.

Real Time chat Application Github

- Built a real-time chat app using MERN stack Socket.io with secure authentication (JWT bcrypt).
- Developed a responsive React frontend and RESTful API backend for user management messaging.
- Designed MongoDB schema (Mongoose) with protected routes for secure access.