

# Liza Garg

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## EDUCATION

### Thapar Institute of Engineering and Technology

*B.E. in Computer Engineering*

- Cumulative GPA: 8.37/10.0

Patiala, Punjab

Sep 2022 – June 2026

### Guru Nanak Dev Public School

*12th CBSE (95%)*

Bathinda, Punjab

2020-2022

## PROJECTS

### MegaBlogs | *React.js, Hono, MongoDB, Node.js*

- Developed a secure and user-friendly full-stack blogging platform using the MERN stack.
- Implemented authentication and authorization features to ensure secure access for users.
- Enabled users to create, edit, and delete blogs with a rich text editor for enhanced content creation.
- Designed an intuitive and responsive user interface to provide a seamless blogging experience.

### Alzheimer's Disease Prediction | *Python, Pandas, NumPy, Matplotlib, Seaborn*

- Analyzed over 10,000 patient records from a Kaggle dataset to predict Alzheimer's disease using advanced machine learning techniques.
- Performed data preprocessing, handling 5% missing values, and reducing dimensionality by 20% using Principal Component Analysis (PCA).
- Improved model performance by scaling features and optimizing hyperparameters.
- Visualized results with bar charts and confusion matrices, identifying Random Forest as the best-performing model for diagnosis prediction.

### FitManage | *JavaFX, MySQL, JDBC, IntelliJ IDEA*

- Developed a Java-based application for managing customer profiles, measurements, and garment specifications.
- Created a comprehensive dashboard to easily access different functionalities such as measurements, products, work status, and customer enrollment.
- Implemented database solutions for tracking garment orders, customer preferences, and measurement history.

## EXPERIENCE

### Executive Member — Creative Computing Society

*Thapar University*

- Participated in various technical competitions and events organized by the society.

Nov 2022 – Present

### Mentee

*Codess Cafe*

- Selected as a mentee under the Mentorship program of Codess Cafe.

Dec 2023 – Present

### Mental Health Student Ambassador

*Thapar Institute Counselling Cell*

- Worked on the official website of Thapar Counselling Cell.
- Contributed to the Content Department of the Cell.

July 2023 – Present

### Core Member — Thapar Food Festival

*Thapar University*

- Engaged as a core member responsible for organizing the Thapar Food Festival.

Sep 2023 – Present

## TECHNICAL SKILLS

**Languages:** C, C++, JavaScript, HTML/CSS, SQL, Python, Java

**Frameworks and Libraries:** React.js, Express.js, Bootstrap, JavaFX, Tailwind, NumPy, Pandas, Matplotlib, SciPy, Scikit-learn, PyTorch, TensorFlow

**Concepts:** Data Structures and Algorithms, Operating Systems, Computer Networks, OOPs, DBMS, Machine Learning

**Developer Tools:** Git/GitHub, Firebase, Appwrite, Node.js, MongoDB, MySQL, Figma, IntelliJ IDEA

## AWARDS AND ACHIEVEMENTS

Solved 250+ questions on leetcode and geeks for geeks.