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# Kathan Kathrotiya

phone-alt 958-656-6717 envelope kathankathrotiya@gmail.com github  
github.com/Kathankathrotiya linkedin linkedin.com/in/kathankathrotiya

## 1 Education

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**Nirma University**

*B.Tech. Computer Science and Engineering*

**P.V. Modi High School**

*JEE Mains (98.54) & JEE Advanced Qualified*

June 2025

Current GPA: 9.09  
May 2021

Board PR: 98.97

## 2 Projects

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label=external-link-alt **WhatsApp-Chat-Analyzer** | Python, Streamlit, GloVe, CNN, BiLSTM, Plotly, Matplotlib

- Developed an interactive user interface using Streamlit and Python libraries to facilitate user engagement.
- Implemented GloVe embeddings for data preprocessing, to efficiently structure raw chat data.
- Integrated deep learning model for sentiment analysis, leveraging Convolutional Neural Network (CNN) and Bidirectional Long Short-Term Memory (BiLSTM) layers.
- Achieved a commendable 78% accuracy by strategically employing the Adam optimizer during the training of the sentiment analysis model.

external-link-alt **Hospital-Management-System** | Python, Flask, SQLAlchemy, MySQL, Werkzeug, HTML, Jinja2

- Developed a Flask-based web application that serves as a comprehensive Hospital Management System, streamlining processes for doctors, patients, and administrators.
- Implemented secure user authentication features with Flask-Login, ensuring a seamless and secure experience for users during registration, login, and logout.
- Designed and integrated a relational database using SQLAlchemy, facilitating efficient data management for doctors, patients, and appointments. Implemented CRUD functionalities to enable easy manipulation of records.

external-link-alt **Break-the-Bricks** | Java, Swing, Graphics2D, IntelliJ Oct. 2022

- Engineered a dynamic 2D breakout-style game in Java, applying OOP principles to implement robust game logic, precise collision detection, and an efficient scoring system.
- Designed and developed the GUI using the Swing library, creating responsive UI elements such as paddles and implementing smooth animations for enhanced user experience.
- Implemented a modular and scalable code structure, utilizing Graphics2D for rendering and optimizing code for improved readability and performance.

external-link-alt **Movie-Ticket-Booking-System** | C/C++, Visual Studio Code May. 2022

- Engineered a console-based Movie Ticket Booking System in C, providing users an

4 Achievements

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label=]5 Star & Problem Solving (Intermediate) Certified | *HackerRank* [external-link-alt](#)  
Solved Algorithms and Data Structures problems  
Master Round Qualified | *Innovate India Coding Championship* [external-link-alt](#) Jul. 2022  
Cleared Aptitude test and Coding Round