

# Riya Patel

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## Full-Stack Developer | Gen AI/ML & Data Science Enthusiast

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Software Developer and B.Tech Computer Science student with expertise in the MERN stack, Java, and Python. Passionate about leveraging Data Science, Generative AI, and Machine Learning to build innovative solutions. Dedicated to continuous learning and applying cutting-edge technologies to solve real-world challenges.

## Education

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### Vellore Institute of Technology, Bhopal

Sept 2022 – May 2026

- Btech in Computer Science & engineering, GPA: 9.02/10

### Advait Vidyaniketan

June 2018 – March 2022

- Secondary & Higher secondary School, 12th: 82 % ,10th: 93 %

## Skills

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**Languages:** Java, Python, C++

**Frontend:** ReactJS, HTML, CSS, JavaScript, Tailwind, TypeScript

**Backend:** Node.js, MySQL, MongoDB, ExpressJS, Flask

**Machine Learning:** Supervised & Unsupervised Learning, Regression, Classification, Clustering, Model Evaluation

**Data Science:** Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow

**Tools:** GitHub, Postman, AWS (beginner), Docker (basic)

## Projects

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### GiftBloom – MERN Stack E-Commerce Gifting Website

Github: GiftBloom

- Built a full-stack gifting site using React.js, Node.js, Express.js, and MongoDB.
- Implemented auth, product filters, cart, and secure payment.
- Designed an admin dashboard to manage products, orders, and analytics.

### AstraMedicare – MERN Stack Doctor Appointment Booking System

Github: AstraMedicare

- Built a full-stack appointment booking system using React.js, Node.js, Express.js, and MongoDB.
- Implemented role-based authentication for Patients, Doctors, and Admins using JWT.
- Integrated features like online booking, EHR management, and secure payment gateway.
- Designed a responsive UI with Tailwind CSS and React Router DOM.

### Spotify Song Clustering – Unsupervised ML Project

Github:  
rolling-stones-song-cohorts

- Clustered Rolling Stones songs using Spotify API features with KMeans (k=4) and PCA for visualization.
- Performed data cleaning, EDA, and dimensionality reduction to uncover audio-based patterns.
- Delivered album-based insights via heatmaps, PCA plots, and cluster trait analysis.

### AAL Q4 2020 Sales Analysis

Github: AAL-Sales

- Analyzed Q4 sales data using Pandas and NumPy for trend discovery.
- Visualized patterns with Matplotlib and Seaborn.
- Delivered insights on peak hours and category trends to guide strategy.

## Certifications

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- **Full Stack Web Development** – Apna College
- **Machine Learning** – Simplilearn + EICT-IITG
- **Applied Data Science** – Simplilearn + EICT-IITG
- **Cloud Computing** – NPTEL Certification Course
- **AWS Solutions Architect Course** – Ethunus
- **Master C++ Programming Course** – GFG
- **Bits and Bytes in CN** – Coursera
- **Python for Data Science** – IBM