

# AMRITA NIRBHEEK

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## Education

**VIT Bhopal University**, Bhopal, India 2022 – Present  
B.Tech in Computer Science and Engineering , CGPA: 8.02

**Sophia Girl's Sr. Sec. School** , Kota, India May 2022  
12th Standard, 83%

**Shiv Jyoti Convent Sr. Sec. School** , Kota, India June 2020  
10th Standard, 89%

## Internship

**Center for Development of Advanced Computing (C-DAC), Delhi** May 2025 – August 2025  
*Web Development and Research Intern* Remote

- Developed full-stack projects including Task Tracker and Memory Game using React.js, Tailwind CSS, FastAPI, and PostgreSQL.
- Implemented key features such as authentication, CRUD operations, state management, and REST API integration.
- Deployed projects on cloud platforms (Vercel & Render) ensuring smooth frontend-backend communication.
- Researched and documented modern web development practices, improving project scalability and maintainability.

## Projects

**Credit Card Fraud Detection—Python, Scikit-learn —GitHub** February 2025

- Developed a machine learning model to detect fraudulent credit card transactions.
- Applied data preprocessing techniques, feature engineering, and handled class imbalance using SMOTE.
- Trained and evaluated models using Logistic Regression, Random Forest, and XGBoost with accuracy and recall.
- Visualized performance metrics using confusion matrices and ROC curves.

**Car Rental Project — React.js, FastAPI, PostgreSQL —GitHub** April 2025

- Built a full-stack car rental management system enabling booking, availability tracking, and user management.
- Frontend developed in React.js with responsive UI, backend implemented in FastAPI with PostgreSQL database.
- Implemented JWT-based authentication, CRUD operations for cars/bookings, and REST API integration.
- Deployed frontend on Vercel and backend on Render for seamless accessibility.

**Memory Game Project — React.js, Tailwind CSS, FastAPI— GitHub** August 2025

- Designed and developed an interactive memory-based puzzle game with branching storylines.
- Implemented dynamic scene rendering, state management, and scoring system in React.js with Tailwind CSS.
- Backend created using FastAPI to manage game progress, inventory, and user state.
- Integrated resume/restart functionality, victory conditions, and data persistence with JSON storage.

## Technical Skills

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

**Developer Tools:** VS Code, GitHub

**Technologies/Frameworks:** React.js, Tailwind CSS, Fast API, REST API, PostgreSQL, Scikit-learn, Pandas, NumPy, Matplotlib, Flask

## Certifications —GitHub

- MERN Full Stack Certification – Ethnus
- DSA Structures in C++ - Coding Ninja

## Achievements

- Achieved Multiple Badges on LeetCode and had maximum streak of 50+ days.

## Leadership / Extracurricular

**Women Empowerment Cell** 2023 – 2024  
*Student Coordinator*

- Conducted several events promoting Women Safety .

**Mharo Rajasthani Club** 2024 – 2025  
*Joint Secretary*

- Conducted several events promoting Rajasthani Culture and Tradition .