AMRITA NIRBHEEK

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Education

VIT Bhopal University, Bhopal, India *2022 – Present*
B.Tech in Computer Science and Engineering , CGPA: 8.01

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 .