ABHISHEK CHOUDHARY

Noida, India

📞 +91-6002384956　　✉ abhi1312choudhary@gmail.com　　LinkedIn　　⭘ GitHub　　LeetCode

Education

VIT Bhopal University **2022 − 2026**
B.Tech - Computer Science and Engineering: Artificial Intelligence-Machine Learning *Madhya Pradesh*
CGPA: 8.68

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL.
Developer Tools: Docker, VS Code, IntelliJ IDEA, Postman
Technologies/Frameworks: GitHub, Vercel, Render, Angular, Git, Spring Boot.

PROJECTS

Online Multiplayer Mancala Game ↗ | Spring Boot, WebSockets (SockJS, STOMP) **In Progress**

- Developing a full-stack Mancala game featuring both session-based multi-player and real-time online 2 player modes.
- Implemented robust bidirectional communication and game state synchronization using WebSockets (SockJS/STOMP) for seamless real-time play.
- Designed an interactive and responsive front-end with HTML, CSS, and JavaScript, ThymeLeaf enabling dynamic 14 pit board rendering and intuitive player actions.
- Engineered server-side game logic and state management, supporting game hosting, joining, and turn-based gameplay with complex rule enforcement.
- Containerized and deployed the application on Render for public access.

AI-ML Based Food Preparation Prediction System ↗ | Scikit-learn, Colab, Python **March 2025**

- Developed a deep learning model using TensorFlow and Keras, achieving R^2 scores of 0.85–0.94 for multi-meal predictions across breakfast, lunch, and dinner.
- Generated 9000+ synthetic datasets capturing food correlations (e.g., rice with rajma) and performed robust preprocessing.
- Optimized neural networks with early stopping and hyperparameter tuning, scaling from single to full-day predictions using 25+ input features.
- Achieved highly accurate multi-meal predictions (R^2 0.85-0.94), projecting a 15-26% increase in kitchen efficiency and a 18-25% reduction in food waste.

Mess Management System ↗ | SpringBoot, Angular, MySQL, Docker, Git **Nov 2024**

- Engineered a centralized mess management system that automated record-keeping, billing, and menu updates, improving efficiency and reducing manual work for 6000+ students.
- Managed student records, bill tracking, and dynamic menus via 10+ RESTful APIs.
- Planned enhancements include automated fee reminders, and ML-driven food preparation prediction.
- Centralized mess operations, enhancing user experience, and reducing cost for 6000+ students and improving administrative efficiency by an estimated 16-24%.
- Containerized and deployed on Vercel(Frontend), Render(Backend) for seamless public usage.

Breast Cancer Detection using CNN (Team of 5) ↗ | Scikit-Learn, Colab, Python **Sept 2024**

- Developed baseline ML models for breast cancer detection on 8,000+ CSV records.
- Enhanced detection accuracy using CNNs on 5,000+ medical imaging datasets.
- Achieved over 35-40% improvement in diagnostic accuracy compared to traditional ML.
- Delivered a highly reliable tool, significantly boosting diagnostic capabilities.

ACHIEVEMENTS

- ∗ Solved **300+ questions** on LeetCode, demonstrating strong problem-solving skills.
- ∗ Deployed all major projects to production environments, ensuring they are accessible and usable by anyone, showcasing end-to-end development and deployment expertise.

CERTIFICATIONS

- **Applied Machine Learning with Python** - Used in Food Prediction Project.

- **Intermediate Machine Learning** - Used in Food Prediction Project.

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