

ABHISHEK CHOUDHARY

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Education

VIT Bhopal University

B.Tech - Computer Science and Engineering: Artificial Intelligence-Machine Learning

2022 – 2026

Madhya Pradesh

CGPA: 8.47

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 Spring Boot 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.

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

- Designed and implemented a full-stack college mess platform (Spring Boot, Angular 17, MySQL, Docker) managing 3 core operational modules.
- 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%.

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 **250+** questions on LeetCode, demonstrating strong problem-solving skills.
- * Completed the **100 Days of Code** challenge, enhancing coding discipline and grasp of DSA concepts.

CERTIFICATIONS

- **Applied Machine Learning with Python** - Coursera - Used in Food Prediction Project.
- **Intermediate Machine Learning** - Kaggle - Used in Food Prediction Project.
- **Privacy and Security in Online Social Media** - NPTEL