ABHISHEK CHOUDHARY

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Education

VIT Bhopal University	**2022 − 2026**
B.Tech - Computer Science and Engineering: Artificial Intelligence-Machine Learning	*Madhya Pradesh*
CGPA: 8.45	

PROJECTS

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.
- Elevated food preparation efficiency by achieving highly accurate multi-meal predictions, leading to optimized resource allocation and reduced waste.

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

- Designed and implemented a full-stack college mess platform using Spring Boot (backend) and Angular 17 (frontend), backed by a MySQL database, containerized with Docker.
- Enabled student record management, bill tracking, and dynamic menu display via RESTful APIs.
- Planned enhancements: dynamic scheduling, automated fee reminders, and ML-driven food preparation prediction.
- Enhanced student control and improved user experience by centralizing college mess operations through a robust full-stack application.

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

- Implemented a baseline ML model using CSV datasets to detect cancer.
- Enhanced accuracy by using CNN on medical imaging datasets.
- Compared performance between traditional ML and CNN models, showing over 30% improvement.
- Delivered a more accurate and reliable breast cancer detection tool, contributing to improved diagnostic capabilities.

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL

Developer Tools: Docker, VS Code, IntelliJ IDEA, Postman

Technologies/Frameworks: Linux, GitHub, Vercel, Render, Angular, Git, Spring Boot MVC, Pandas

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.

EXTRACURRICULAR

- **Linux Technical Club (Member, Oct 2022 − Oct 2023):** Participated in club activities, tech discussions, and workshops at VIT Bhopal.
- **Advitya Event (Finalist, Feb 2023 − Nov 2024):** Reached finals in college cricket tournaments, showcasing team spirit and sportsmanship.

CERTIFICATIONS

- **Applied Machine Learning with Python** - Coursera
- **Intermediate Machine Learning** - Kaggle
- **Privacy and Security in Online Social Media** - NPTEL