Abhishek Choudhary

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EDUCATION

VIT Bhopal UNIVERSITY Bhopal, India
Bachelor of Engineering Expected May 2026
Major in Computer Science Engineering: Specialization in Artificial Intelligence and Machine Learning
Cumulative GPA: 8.40/10

Kendriya Vidyalaya, Narangi Guwahati, India
12th Standard CGPA: 94% Jul 2020 - Jul 2022

St. Joseph's High School Guwahati, India
10th Standard CGPA: 88% 2020

UNIVERSITY PROJECTS

AI-ML Based Food Preparation Prediction System March 2025
- **Synthetic Data Creation**: Generated a 9000+ meal dataset from scratch, capturing real-world food co-relation patterns (e.g., rice with rajma) to address data scarcity.
- **Model Exploration**: Tested Random Forests and regressors; shifted to deep neural networks, used early stopping to prevent over-fitting, tuned learning rates and layer sizes for superior multi-meal prediction accuracy.
- **System Scaling**: Scaled model in three phases from single to full-day meal predictions, handling 25+ input features.
- **Model Outcome**: The DL model was successful in predicting values for each food item within the accepted threshold value, achieving R^2 scores between 0.85–0.94 across different meals.

Mess Management System Nov 2024
- **Web App Development**: Built a Spring Boot and Angular 17-based platform with MySQL to streamline college mess operations.
- **Implemented features**: Enabled student record management, bill tracking, and dynamic menu display via RESTful APIs.
- **Planned enhancements**: Dynamic meal scheduling and automated fee reminder emails, ML driven prediction for food preparation.

Breast Cancer Detection using CNN (5-member group project) Sept 2024
- **Data-Driven Diagnosis** – Initially implemented a basic ML model using CSV data for cancer detection.
- **Image-Based Detection** – Enhanced the system by integrating CNN to analyze medical images.
- **Performance Comparison** – Evaluated accuracy differences between structured data and image-based models.(>30%)

SKILLS

- **Programming** - Python, Java, C++
- **Machine Learning & AI** - Scikit-learn, TensorFlow, Keras, OpenCV, CNN, Deep Learning
- **Data Science** - Pandas, NumPy, Matplotlib
- **Software Development & Frameworks** - Spring Boot, Angular, Node.js, RESTful APIs, GitHub
- **Tools & Technologies** - GitHub, IntelliJ, VS code, Postman, MySql

ACHIEVEMENTS

- Solved 120+ medium-level LeetCode problems, earning 50-day, 100-day, and monthly challenge badges (Feb-Apr 2025).
- Completed 100+ DSA challenges in 51 Days of Code, enhancing algorithmic problem-solving skills.

CERTIFICATES

- **Applied Machine Learning with Python** (Coursera): Applied in food prediction project.
- **Intermediate Machine Learning** (Kaggle): Applied in food prediction project.
- **Privacy and Security in Online Social Media –** NPTEL