

B.TECH CSE(AI&ML)

MANIPAL UNIVERSITY JAIPUR

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ARCHIT BADONI

Summary

AI/ML-focused Computer Science student with experience building production-ready computer vision applications. Created SmartHairAI facial analysis system and Universal Home AI security dashboard with real-time object detection. Combines strong programming foundation (Python, C++) with modern ML frameworks (PyTorch, YOLOv8) and full-stack development skills (FastAPI, React, WebSockets).

Technical Skills

Programming Languages:

- Python (Advanced)
- SQL (Intermediate)
- C++ (Intermediate)
- JavaScript (Intermediate)

AI/ML:

- | | |
|--------------------|--------------|
| • OpenCV | • PyTorch |
| • YOLOv8 | • DeepFace |
| • Face Recognition | • NumPy |
| • Pandas | • Statistics |

Web Dev:

- | | |
|---------------|--------------|
| • FastAPI | • React |
| • TailwindCSS | • WebSockets |
| • REST APIs | |

Databases:

- | | |
|-------------------|-------|
| • Oracle | • SQL |
| • Database Design | |

Tools & Others:

- | | |
|--------------|-------|
| • Git/GitHub | • DSA |
| • OOP | |

Education

- **Manipal University Jaipur**
B.Tech in Computer Science
Engineering (AI&ML)
2023-2027
- cgpa : 7.38

CERTIFICATIONS

Database Design

Oracle Academy
Issue Date : 14th November,2024

Data Structures And Algorithms

Codechef
Issue Date : 19th November,2024

Database Foundations

Oracle Academy
Issue Date : 16th November,2024

Python Essentials 1&2

Cisco Academy
Issue Date : 14th October,2024

Database Programming with SQL

Oracle Academy
Issue Date : 20th November,2024

PROJECTS

SmartHairAI – AI-Based Facial Similarity & Hairstyle Recommendation System(ongoing)

: Developed facial recognition system processing 13,000+ celebrity images using OpenCV and face_recognition library to extract 128-dimensional encodings. Built full-stack solution with Flask backend and responsive frontend, implementing pickle serialization for 90% faster load times and distance-based similarity matching for salon hairstyle recommendations.

Tech Stack: Python, Flask, OpenCV, face_recognition, HTML ,CSS, Javascript

Universal Home AI – Real-Time Smart Home Security Dashboard

: Built AI-powered security system with YOLOv8 object detection and real-time video streaming via FastAPI backend. Developed responsive React dashboard with WebSocket integration for instant alerts and live camera feed analysis, optimized for low-latency performance across multiple environments.

Tech Stack: Python, FastAPI, PyTorch (YOLOv8), OpenCV, React, TailwindCSS, WebSockets