B.TECH CSE(AI&ML)

MANIPAL UNIVERSITY JAIPUR

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ARCHIT BADONI

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

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).

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