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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (CSE)	Indian Institute of Technology, Jodhpur	CGPA: 8.6/10	Expected: 2027
Senior Secondary	Maharashtra HSC Board	77.3%	2023
Secondary	Maharashtra HSC Board	88.0%	2021

Achievements

- **JEE Mains :** Secured AIR 1990 (99.83 percentile) among more than 12,00,000 students. *2023*
- **JEE Advanced :** Secured AIR 2130 among more than 1,80,000 JEE Mains qualified students. *2023*
- **PhysicsBrawl :** Our team secured 22nd place in this international competition (by Charles University). *2022*

Projects

- **Video Analysis (Crack detection)** *December 2024*
  Design Credit course Project GitHub
  – **Tools & technologies used**: Python, Deep learning, YOLOv11 model, OpenCV
  – Developed ML model that can draw bounding boxes around cracks in walls with mAP50-95 of approximately 0.5608. More information and a demo video are available in the GitHub README file.
- **PathFinder** *November 2024*
  DSA course Project GitHub
  – **Tools & technologies used**: C++, DSA, JavaScript, Docker
  – Developed an optimal pathfinding system as part of a DSA project, implementing a shortest-path algorithm in C++ and creating a web application for real-time visualization.
- **Self driving model** *April 2024*
  Self-learning project in ML/DL GitHub
  – **Tools & technologies used**: Python, Tensorflow, AlexNet CNN, Direct Keyboard inputs, ML/DL
  – Implemented a machine learning project using TensorFlow to create an autonomous system that controls keyboard inputs for driving cars in Grand Theft Auto V (GTAV) with an average precision about 53%. I implemented alexnet CNN network for this project .
- **Road Safety model** *April 2024*
  Engineering Design course project GitHub
  – **Tools & technologies used**: Python, Raspberry Pi Pico, microPython, YOLOv7, PyTorch
  – About 14% Road accidents are caused due to blind spots. To solve this problem, we Used YOLOv7 pretrained model, that will detect car and triggers an alert signal with 96% accuracy.
- **Money Transaction Tracker** *December 2023*
  Introduction to computer science course project GitHub
  – **Tools & technologies used**: C, File handling
  – Designed a C program to track and manage financial transactions effectively, providing users with categorized expense tracking, daily summaries, and error-handling mechanisms for invalid inputs.

Key Courses Taken

- **Introduction to CS** Grade: 10/10
- **Data Structure and Algorithms** Grade: 9/10
- **Mathematics for Computing** Grade: 8/10
- **Probability Statistics and Stochastic Processes** Grade: 8/10
- **Pattern Recognition and Machine Learning** (in progress)
- **Software Engineering** (in progress)

Technical Skills

- **Programming:** C, C++, Python, JavaScript
- **Tools & OS:** Git, Linux, Windows, Yolo, Solidworks, Digital Audio Workstation, pwndbg, sqlite, aws
- **Libraries/Frameworks:** PyTorch, Tensorflow, Pandas, Numpy, scikit-learn, Docker, OpenCV
- **Web Skills:** HTML, CSS, JS, Flask, React

Position of Responsibility

- **Design Team/Core member** in Sangam (Music Society), IIT Jodhpur *Present*

Co-curricular Activities

- **Band Performances** Delivered over 15 captivating performances as a flautist in the university music society, showcasing talent at prestigious competitions like InterIITs while collaborating with skilled musicians to enhance overall musicality.
- **Digital Audio Workstation** Created and produced music tracks using FL Studio, applying equalization techniques, mixing strategies, and advanced effects to enhance sound quality; received positive feedback from peers for creativity.