Shreekar Vijaykumar Mane

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (CSE)	Indian Institute of Technology, Jodhpur	8.6 (current)	2023-present
Senior Secondary	HSC (Maharashtra) Board	77.0%	2023
Secondary	HSC (Maharashtra) Board	87.0%	2021

ACHIEVEMENTS

- **JEE Mains :** Secured AIR 1990 (99.83 percentile) — *2023*
- **JEE Advanced :** Secured AIR 2130, Physics score : 96 — *2023*
- **PhysicsBrawl (by Charles University) :** Our team secured 22nd place in this international competition — *2022*

KEY PROJECTS

- **Video Analysis (Crack detection)** — *Dec. 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** — *Nov. 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** — *Apr. 2024*
  Self-learning project in ML/DL — Github
  - **Tools & technologies used**: Python, Tensorflow, AlexNet CNN Network, 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** — *Apr. 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** — *Dec. 2023*
  Introduction to computer science course project — Github
  - **Tools & technologies used**: C, File handling
  - Wrote a C program that keep track of money transaction as part of an introductory computer course project

KEY COURSES TAKEN

- **Introduction to CS** (10/10)
- **Data Structure and Algorithms** (9/10)
- **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
- **Libraries/Frameworks:** PyTorch, Tensorflow, Pandas, Numpy, scikit-learn, Docker, OpenCV
- **Web Skills:** HTML/CSS/JS, Flask

Position of Responsibility

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

Co-curricular Activities

- **Band Performances** I am a flautist in our music society and I have done many stage performances and competitions including InterIITs. During this I had the opportunity to work with musically skilled people.
- **Digital Audio Workstation** I have done music projects on FL studio (DAW). And have knowledge to Equalize music tracks, mix them, and add effects to waveforms.