



Shreekar Vijaykumar Mane

Roll No.:B23CS1069

Bachelor of Technology (B.Tech)

Computer Science and Engineering

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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	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

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
- **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** 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.