



# Shreekar Vijaykumar Mane

Roll No.:B23CS1069

Bachelor of Technology (B.Tech)

Computer Science and Engineering

Indian Institute Of Technology, Jodhpur

+91-9503772556

shreekar1069@gmail.com

b23cs1069@iitj.ac.in

<https://github.com/shreekar2005>

<https://www.linkedin.com/in/shreekar1069>

## 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.
- **ATM machine** Dec. 2023  
Introduction to computer science course project  
Github  
– **Tools & technologies used:** C, File handling  
– Created an ATM security and transaction history application in C 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.