

Shreekar Vijaykumar Mane

B.Tech — Computer Science and Engineering — IIT Jodhpur

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🌐 shreekar2005.github.io/about_me

Education

Indian Institute of Technology, Jodhpur
B.Tech in Computer Science and Engineering

Expected Graduation: 2027
CGPA: 8.6/10

Achievements

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

Projects

Video Analysis

December 2024

Design Credit Course Project

[\[GitHub\]](#)

Tools: Python, Deep Learning, YOLOv11, OpenCV

- Developed ML model to detect wall cracks with mAP50-95 of 0.5608.
- Optimized dataset preprocessing, reducing training time by 25%.

PathFinder

November 2024

DSA Course Project

[\[GitHub\]](#)

Tools: C++, DSA, JavaScript, Docker

- Created an optimal pathfinding system using an optimized Dijkstra's algorithm.
- Implemented a pathfinding simulation in a graph using the A* algorithm for efficient shortest-path computation.

Self-Driving Model

April 2024

Self-Learning Project in ML/DL

[\[GitHub\]](#)

Tools: Python, TensorFlow, AlexNet CNN

- Developed an autonomous keyboard control system for Grand Theft Auto V with 53% precision.
- Processed over 100,000 frames for training, improving model accuracy by 15%.

Road Safety Model

April 2024

Engineering Design Course Project

[\[GitHub\]](#)

Tools: Python, Raspberry Pi Pico, microPython, YOLOv7, PyTorch

- Designed a system detecting vehicles and triggering alerts with 99% accuracy.
- Deployed real-time testing on roads, validating system efficiency.

Technical Skills

- **Programming:** C, C++, Python, JavaScript.
- **Tools & OS:** Git, Linux, Windows, YOLO, SolidWorks, AWS.
- **Libraries:** PyTorch, TensorFlow, Pandas, NumPy, scikit-learn, Docker, OpenCV.
- **Web Development:** HTML, CSS, JavaScript, Flask, React.

Key Courses Taken

- **Introduction to Computer Science** — Grade: **10/10**
- **Data Structures and Algorithms** — Grade: **9/10**
- **Mathematics for Computing** — Grade: **8/10**
- **Probability, Statistics, and Stochastic Processes** — Grade: **8/10**
- **Pattern Recognition and Machine Learning** — *Currently Enrolled*
- **Software Engineering** — *Currently Enrolled*

Position of Responsibility

Design Team/Core Member, Sangam (Music Society), IIT Jodhpur

Present

Co-Curricular Activities

- **Band Performances:** Delivered 15+ flute performances, including InterIITs.
- **Music Production:** Created and produced tracks using FL Studio with advanced techniques.