Shreekar Vijaykumar Mane

B.Tech — Computer Science and Engineering — IIT Jodhpur

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Education

Indian Institute of Technology, Jodhpur	**Expected Graduation: 2027**
B.Tech in Computer Science and Engineering	*CGPA: 8.47/10*

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

Emotion to Movies - Website — *April 2024*
Software Engineering Course Project **[GitHub]**
Tools: Python, NLP, ASR, SER, Transformers, Flask, PyTorch, AWS.
- Designed, built and hosted 'MoodFlix', a web app recommending movies based on user emotions, achieving 87% accuracy in emotion classification.
- Implemented Wav2Vec for speech-to-emotion recognition, reducing word error rate by 22% compared to original models.

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 on provided dataset.
- Optimized dataset preprocessing, reducing training time by 25%.

Shortest path finder — *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%.

Technical Skills

- **Programming languages:** C, C++, Python, JavaScript.
- **Tools, OS & Techniques:** Git, Linux, Windows, Yolo, Digital Audio Workstation, pwndbg, sqlite, AWS, Docker.
- **Libraries:** PyTorch, TensorFlow, Pandas, NumPy, scikit-learn, OpenCV.
- **Web Development libraries/frameworks:** Flask, React, Django.

Key Courses Taken

- Data Structures and Algorithms — Grade: 9/10
- Pattern Recognition and Machine Learning — Grade: 9/10
- Software Engineering — Grade: 7/10;
- Mathematics for Computing — Grade: 8/10
- Probability and Statistics — Grade: 8/10

Position of Responsibility

Design Team and Core Member, Sangam (Music Society), IIT Jodhpur — *2024-2025*

Co-Curricular Activities

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