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: 8.5/10	Expected: 2027
Senior Secondary	Maharashtra HSC Board	77.3%	2023
Secondary	Maharashtra HSC Board	88.0%	2021

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 :** Our team secured 22nd place in this international competition (by Charles University). *2022*

Projects

- **Emotion to Movies - Website** *April 2024*
  Software Engineering Course Project GitHub
  – **Tools & technologies used**: 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.
- **Self-Driving Model** *April 2024*
  Self-Learning Project in ML/DL GitHub
  – **Tools & technologies used**: 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%.
- **Shortest Path Finder** *November 2024*
  DSA Course Project GitHub
  – **Tools & technologies used**: 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.
- **Video Analysis** *December 2024*
  Design Credit Course Project GitHub
  – **Tools & technologies used**: 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%.

Key Courses Taken

- **Data Structure 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 Statistics and Stochastic Processes** Grade: 8/10

Technical Skills

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

Position of Responsibility

- **Design Team/Core member** in Sangam (Music Society), IIT Jodhpur *2024-2025*

Co-curricular Activities

- **Band Performances** Delivered 15+ flute performances, including InterIITs
- **Digital Audio Workstation** Created and produced tracks using FL Studio with advanced techniques.