Sanskar Gupta

Machine Learning | Computer Vision | Python Developer

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Education

Vellore Institute of Technology, Chennai
B.Tech in Computer Science and Engineering
Specialization: Artificial Intelligence and Robotics
2021 – 2025

Technical Skills

• Programming Languages: Python, Java, C++, JavaScript, Swift
• AI/ML/DL Frameworks: TensorFlow, Keras, PyTorch, scikit-learn, XGBoost
• Computer Vision: OpenCV, MediaPipe, YOLO, SSD
• Data Science: Pandas, NumPy, Matplotlib, Seaborn
• Web Development: HTML, CSS, JS
• Application Development: Flutter (Dart), Node.js, Express.js, Firebase, Django
• Cloud/Automation: AWS, Google Cloud, Python (Scripting, Process Automation)
• Tools: Git, Docker, Postman, Linux, MatLab, Arudino & Raspberry Pi with multiple sensors
• DevOps Tools: Jenkins, Maven, Liquibase, Artifactory, Git, Shell Scripting

Projects

- **GestureBridge:** Built a multimodal system allowing users to control systems via gestures, voice, and gaze with real-time MediaPipe hand-tracking and PyQt interface.

- **Fundus Eye Disease Classifier:** Developed a CNN-based model to classify 28 types of retinal diseases from fundus images, achieving high diagnostic accuracy.

- **Body Fat Estimation System:** Created an AI model estimating body fat percentage from full-body images using pose detection and predictive modeling.

- **Emotion Analyzing System:** Implemented an ML-driven emotion classifier using LSTM and SVM models to predict emotional states from social media and journal entries.

- **Self-Balancing Robot:** Designed and controlled a two-wheel robot using PID control logic for real-time balance and obstacle avoidance.

- **Room and Space Mapping Robot:** Built a SONAR-based autonomous robot to map spaces using rotating ultrasonic sensors, replicating LiDAR functionality affordably.

- **Database Automation :** Automated database automation using Jenkins and Mavins along with Liquibase, can be used by large entreprise during updates.

- **Others :** For other projects, please click here.

Achievements

• Winner of GDSC Hackathon
• Finalist: Android Club Hackathon (Android App Development)
• Finalist: Formulathon (Autonomous Formula Car Solutions)
• Certifications : Cleared AWS Certified Cloud Practitioner (CP) and AWS Certified Solutions Architect –   Associate (SAA), Aritifical Intelligence (IBM)
• Other Certifications (Udemy) : Python Programming, Machine Learning, DSA, Flutter, Artifical Intelligence, Computer Vision