

# SANDEEP PALLERI

✉ [Sandeepreddy.palleri@gmail.com](mailto:Sandeepreddy.palleri@gmail.com)  
☎ +91 6302264345  
📍 Hyderabad

in [linkedin.com/in/Sandeep-p/](https://linkedin.com/in/Sandeep-p/)  
🐙 [github.com/Sandeep9975/](https://github.com/Sandeep9975/)  
🌐 [www.sandeep.social](http://www.sandeep.social)

## EDUCATION

### CMR ENGINEERING COLLEGE

Bachelor of Engineering in Computer Science and Engineering  
Specialization in Artificial Intelligence and Machine Learning  
Cumulative GPA: 7.36/10

**Expected July 2024**  
Medchal, Hyd

## PROJECTS

### VISUAL OBJECT DETECTION IN IMAGES

**July 2023**

- Implemented real-time object detection using pre-trained YOLOv3 model and COCO dataset, achieving accurate detection and classification of multiple objects in diverse scenarios.
- Optimized system efficiency through batch processing, frame size reduction, and non-maximum suppression, resulting in faster processing and cleaner output.
- Developed a visually appealing object detection system with unique class-specific colors, enhancing user experience and interpretability of the detected objects.

### FRAUDULENT FIRM CLASSIFICATION

**May - Jun 2023**

- Implemented machine learning model (Random Forest, Linear Regression) to detect fraudulent firms, increasing accuracy and reducing false positives.
- Employed feature engineering techniques to extract relevant URL attributes, fine-tuned model hyperparameters, and used cross-validation to enhance the model's performance.
- Leveraged current and historical risk factors to develop a robust classification system, improving fraud detection capabilities.

### PHISHING WEBSITE DETECTION USING MACHINE LEARNING

**Apr - Jun 2023**

- Developed a user-friendly Streamlit web application empowering users to independently verify the authenticity of URLs, enhancing online safety practices.
- Created a Phishing Websites Detector using various machine learning algorithms, such as decision trees, Random Forests, and KNN, to accurately identify malicious URLs.
- Tools Used: HTML, CSS, JAVASCRIPT, NUMPY, PANDAS etc.

### CAR PRICE PREDICTION USING MULTI-VARIATE ANALYSIS

**Mar - Jun 2023**

- Built a machine learning regression model to predict the car prices.
- Used RFE (Recursive Feature Elimination) for feature selection, heatmaps and scatter plots for getting better insights.
- Tools Used: HTML, CSS, JAVASCRIPT, NUMPY, PANDAS etc.

### HAND GESTURE CONTROLLED ROBOT

**Apr - May 2022**

- Designed and implemented a cutting-edge hand-gesture control interface for a car-robot, revolutionizing the way users navigate and interact with the system.
- Developed a robust electronic and mechanical system, integrated with a programmable interface controller, to ensure precise and responsive control of the robot.
- Transformed user experience by creating an innovative controlled assist system, enhancing safety and efficiency in navigating the car-robot.

### AI – CHATBOT

**Aug - Sep 2021**

- Developed and implemented a Conversational AI platform that leverages FAQ data to provide accurate and prompt responses, improving customer satisfaction and reducing support team workload.
- Successfully enhanced user experience by creating an intelligent Chatbot solution that efficiently addresses customer inquiries, resulting in improved engagement and streamlined support processes.

## **DRIVER SAFETY: ANTI SLEEP ALARM SYSTEM**

**Jan - Feb 2021**

- Created an innovative anti-sleeping alarm system to enhance driver safety by preventing drowsy driving incidents and reducing accidents by driver fatigue.
- Developed a sophisticated model utilizing real-time monitoring of driver behavior, such as eye movements and steering Patterns, to detect signs of drowsiness.
- Employed a combination of sensor fusion techniques.

## **SKILLS**

---

**Programming Languages:** C++, Python, SQL, HTML, CSS, JavaScript

**Packages:** NumPy, Pandas, Plotly, Seaborn, NLTK, Spacy, OpenCV, NLP, Matplotlib

**Algorithms:** Decision Trees, Random Forest, KNN, Adaboost, Logistic Regression, K-means clustering

**Data Science Pipeline:** Analysis, Visualization, Cleaning, Modeling, Interpretation

**Tools:** Tableau

## **CERTIFICATIONS**

---

- Certified by Surge Classes Data Science and AI Campus Program.
- Certified by Google for completion of Google Advanced Data Analytics
- Certified by Spoken Tutorial for completion of Advance C++, Java, Python Training.
- Introducing Robotic Process Automation

## **ACHIVEMENTS**

---

- Completed Tata Data Visualization: Empowering Business and Effective Insights Virtual program by Forage.
- Completed SQL Essential Bootcamp, C++ programming Essential Bootcamp Conducted by Let's Upgrade.
- Attended one day workshop on IPR Conducted by NIPAM.
- Attended one day workshop on Latex using Overleaf Editor.
- Awarded for participating in Electrical quiz conducted by Pragnya'22 JNTUH.
- Participated in Internal Hackathon for SIH-2022.
- Part of Institute Football Team securing 1<sup>st</sup> Prize
- Securing 1<sup>st</sup> Prize in Inter school cricket championship.