

# SANDEEP PALLERI

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## PROFESSIONAL SUMMARY

A proficient final-year AIML student skilled in utilizing statistical analysis and machine learning methods to derive meaningful insights from intricate datasets. Possesses expertise in Python, data preprocessing, and model construction. Demonstrates adept problem-solving abilities and a keen interest in transforming data into practical resolutions.

## EDUCATION

### CMR ENGINEERING COLLEGE

Bachelor of Engineering in Computer Science and Engineering  
Specialization in Artificial Intelligence and Machine Learning  
Cumulative GPA: 7.5/10  
Robotics Club Spokesperson, Class Representative

Medchal, Hyd  
Expected July 2024

### SRI CHAITANYA JUNIOR KALASALA

Class 12<sup>th</sup> in PCM  
Cumulative GPA: 6.7/10

Alwal, Hyd  
Jun 2019 - Mar 2020

### LITTLE FLOWER HIGH SCHOOL

Class 10<sup>th</sup>  
Cumulative GPA: 7.5/10

Alwal, Hyd  
Jun 2017 - Mar 2018

## 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

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

**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

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- Certified by Surge Classes Data Science and AI Campus Program.
- Certified by Google for completion of Google Advanced Data Analytics Aug 2023
- Certified by Google for completion of The Nuts and Bolts of Machine Learning Aug 2023
- Certified by Google for completion of Go beyond the numbers: Translate data into insights. Aug 2023
- Certified by Google for completion of Foundations of Data Science. Aug 2023
- Certified by Google for completion of Getting Started with Python. Aug 2023
- Certified by AWS Academy Graduate for completion of AWS Academy Machine Learning Foundation. July 2023
- Certified by AWS Academy Graduate for completion of AWS Academy Cloud Foundation. June 2023
- Certified by Spoken Tutorial for completion of Advance C++, Java, Python Training.
- Introducing Robotic Process Automation Dec 2020

## ACHIVEMENTS

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- Completed Tata Data Visualization: Empowering Business and Effective Insights Virtual program by Forage. Jul 2023
- Completed SQL Essential Bootcamp, C++ programming Essential Bootcamp Conducted by Let's Upgrade. Feb 2023
- Attended one day workshop on IPR Conducted by NIPAM. Jan 2023
- Attended one day workshop on Latex using Overleaf Editor. Jun 2022
- Awarded for participating in Electrical quiz conducted by Pragnya'22 JNTUH. Nov 2021
- Participated in Internal Hackathon for SIH-2022. Jul 2021
- Part of Institute Football Team securing 1<sup>st</sup> Prize Sep 2017
- Securing 1<sup>st</sup> Prize in Inter school cricket championship. Aug 2017