

# SANDEEP PALLERI

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## WORK EXPERIENCE

### AICTE – EDUSKILLS VIRTUAL INTERNSHIP

AI-ML Intern

Hyd

May 2023 – Jul 2023

- Completed virtual internship program focused on AI and ML, with training in AWS Academy Machine Learning Foundations and AWS Academy Cloud Foundations.
- Applied acquired knowledge and skills to complete assigned assignments in the program, showcasing practical experience in AI and cloud computing.

## 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

### OBJECT DETECTION USING YOLO

Jul 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

Jul 2023

- Implemented machine learning model (Random Forest, Linear Regression) to detect fraudulent firms, increasing accuracy and reducing false positives.
- Evaluated system performance using accuracy, precision, recall, and F1 score, enabling data-driven decisions for enhanced fraud detection.
- Leveraged current and historical risk factors to develop a robust classification system, improving fraud detection capabilities.

### PHISHING WEBSITE DETECTION USING MACHINE LEARNING TECHNIQUES

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 MULTIVARIATE 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.

## SKILLS

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- **Technical Skills:** C, C++, Python, SQL, HTML, CSS, JavaScript
- **Frameworks and Packages:** NumPy, Pandas, Plotly, Seaborn, NLTK, Spacy, OpenCV, NLP, Matplotlib
- **Algorithms:** Decision Trees, Random Forest, KNN, Adaboost, Logistic Regression, K-means clustering, SFM
- **Data Science:** Data Analysis, Data Visualization, Data Cleaning, Data Modeling

## CERTIFICATIONS

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### SURGE CLASS

- Surge Classes Data Science and AI Campus Program

### COURSERA

- Foundations of Data Science
- Getting Started with Python

### AUTOMATION ANYWHERE

- Introducing Robotic Process Automation

Dec 2023

### SPOKEN TUTORIAL

- Certified by Spoken Tutorial for completion of-
  - C++
  - Python Programming

## ADDITIONAL INFORMATION

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### COMPETITIVE SPORT

- Part of Department Cricket team – CMREC.
- Part of Institute Football Team securing 1<sup>st</sup> Prize (Sep – 2017).
- Securing 1<sup>st</sup> Prize in Inter school cricket championship.

### ACHIVEMENTS

- Awarded for participating in Electrical quiz conducted by Pragnya'22 JNTUH.
- Participated in Internal Hackathon for SIH-2022.
- Participated in Science Expo.
- Participated in the 12<sup>th</sup> National Cyber Olympiad held in the year 2012.

### WORKSHOP / BOOTCAMP'S

- Attended one day workshop on IPR Conducted by NIPAM (Jan-2023).
- Attended one day workshop on Latex using Overleaf Editor.
- Completed SQL Essential Bootcamp, C++ programming Essential Bootcamp Conducted by Let's Upgrade.
- Completed Tata Data Visualization: Empowering Business and Effective Insights Virtual program by Forage.
- Currently enrolled in Full Stack Web Development course by Udemy, actively expanding knowledge and skills in front-end and back-end web development techniques, frameworks, and tools.