

Omkar Harsha Komarpant

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EDUCATION

DY Patil University, Mumbai, India

Bachelors of Technology in Information Technology

Jul 2021 - Jun 2024

GPA: 8.0/10.0

EXPERIENCE

Ramroa Adik Institute Of Technology

Computer Vision Intern, Internship

June 2022 - Aug 2022

Navi Mumbai, India

- Collaborated with a cross-functional team on assigned projects, demonstrating effective communication and teamwork skills.
- Successfully developed a working prototype for image processing, Hand Tracking and Facial Recognition, showcasing a keen understanding of computer vision principles.
- Gained valuable knowledge in both supervised and unsupervised learning methodologies.
- Contributed to the classification of data, enhancing accuracy and efficiency in the computer vision applications.

Tata Consultancy Services

SDE Intern, Internship

Jan 2024 - May 2024

Mumbai, India

- Collaborated on integrating NLP, web scraping (Beautiful Soup), and vector database storage into the chatbot project.
- Contributed to developing a generative AI-based chatbot (LaMa 2 model), improving customer interactions by 30% as an internal tool for TCS.
- Demonstrated strong problem-solving skills in resolving complex challenges.
- Played a key role in designing and implementing a VR-based system for Ericsson, utilizing Unity and Unreal Engine.

PROJECTS

ThirdEye: AR Smart Glasses for Security

Dr. Pallavi Chavan, DYPU

Sep 2023 - Jan 2024

<https://vimeo.com/837157622>

- Spearheaded AR smart glasses development for enhanced security.
- Used Python, OpenCV, Mediapipe, TensorFlow, CNN, and pyzbar in the tech stack.
- Implemented advanced features: robust face recognition and QR-based guest authorization.
- Designed hardware using Tinker CAD and 3D printing with ABS material for prototype creation.
- Innovated with a reflective solution for seamless integration into real and virtual environments.
- Led a 4-member team in optimizing operational efficiency and effectiveness.

Railvision

Dr. Reshma Gulwani, DYPU

Sep 2023 - Nov 2023

<https://github.com/Omkarr/RailVision>

- Led a 2-member team in developing "Rail Vision" railway security system using advanced machine learning and YOLOv5.
- Implemented YOLOv5 for real-time object detection covering various categories.
- Used Python, OpenCV, TensorFlow, Karas, MongoDB, and Streamlit.
- Achieved 96% accuracy in low light conditions for fast and accurate object identification.
- Delivered early threat alerts, reducing response times and enhancing overall railway security.

RAIT-ACM Website

Students Technical Committee, RAIT

Aug 2022 - July 2023

Live Website

- Led the enhancement, maintenance, and optimization of RAIT ACM's website as Technical Head.
- Crafted a creative website for the annual hackathon, implementing features for an enhanced user experience.
- Demonstrated technical leadership, efficiently managing the development team and maintaining technological integrity.

ACHIEVEMENTS

First Place	Organized by Association of Indian universities.	2023
First Place	National Level Project Competition, SPIT in collaboration with AICTE and ESA	2023
First Place	National Level Project Competition, DJ Sangvi College of Engineering	2023
First Place	State Level Technical Competition, SNJB's College of Engineering Chandwad Nashik	2021
First Place	State Level Technical Competition, Shivaji Rao Jondhale College of Engineering	2021
First Place	State Level Technical Competition, Shree Shankar Naraya Education	2021
First Place	State Level Technical Competition, MGM Polytechnic	2021

TECHNICAL SKILLS

Programming languages: C++, Python, Java

ML/AI: Pytorch, Numpy, Matplotlib, Scipy, Keras, Tensorflow

Web Technologies: HTML, CSS, Django, JavaScript

Miscellaneous: MySQL, Git, linux OS, Agile Development

RELEVANT COURSEWORK

Computer Science: Deep Learning, Data Structures and Algorithms, Databases, Operating Systems, Computer Networks

POSITIONS OF RESPONSIBILITY

Technical Head, RAIT-ACM:

Lead a team of 7 students for ACM International Chapter

2022 - 2023

Team Lead, DYPU:

Took my Technical Team for various Technical Competitions

2018 - 2019

PATENT

Title: System and Method to Enhance Security in an Organization by Using Augmented Reality Smart Glasses

Patent Number: 202321037263

Status: Published