Kunal Pawar

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OBJECTIVE

To leverage my expertise in Artificial Intelligence and Machine Learning, coupled with hands-on experience in computer vision, web development, and backend management, to contribute innovative solutions in a dynamic organization that values technology-driven advancements. Seeking an opportunity to apply my skills in research and development to create impactful, scalable AI solutions that enhance operational efficiency and security.

EDUCATION

Don Bosco High School and Jr. College   Vikhroli(E), Mumbai-042, Maharashtra
10th *GPA: 9.24*   June 2019 - March 2020

SK Somaiya Vinay Mandir   Vidyavihar(East), Mumbai-077, Maharashtra
12th *GPA: 8.45*   June 2018 - March 2020

Thakur College of Engineering and Technology   Kandivali(east), Mumbai-101, Maharashtra
B.Tech AI&ML *GPA: 9.82*   December 2021 - May 2025

EXPERIENCE

Holo Inventions Inc.   Antop hill, Wadala, Mumbai-037, Maharashtra
Research and Development Intern   November 2023 - March 2024

• Used computer vision to process images and videos, making it easier to extract backgrounds. This helped improve the quality and usability of the input data.

• Research and Development was done in order to make sure that latest technologies are employed to develop the software. Current existing solutions were researched, using which an estimate of resources that would be required was calculated.

• A simple user interface was created through web development. Streamlit was used as the framework for development of the user interface.

• The project used machine learning for successful detection and crisp extraction of subject from the input video. This crisp extraction allowed for a good quality projection of the subject in the implemented system.

SKILLS

Programming Languages:	C, C++, Python, HTML, CSS, JS, Next.JS
Backend management:	MySQL, FireBase, MongoDB
AI&ML:	OpenCV, TensorFlow, Pytorch, NLP, Image processing

PROJECTS

- **Broken Object Detection using Deep Learning**   April 2023

Technology used: Machine Learning, Computer Vision

https://github.com/Kp4103/Manufacturing-Defect-Detection-Hackathon

  - Leveraged YOLO v5 to create an effective and efficient model focused on detecting and identifying broken TVs and Mugs.
  - The model was trained on about 100 images from each category and had an accuracy score of 0.8.

- **Holo Conferencing**   November 2023 - March 2024

Technology used: Computer Vision, Web Development, Machine Learning

  - Developed a real-time video capture and processing application using Computer Vision for holographic display.
  - Used computer vision for extraction of subject from real time videos.
  - Additionally, Streamlit was used for creation a user friendly interface for input and display of processed video.
  - Machine Learning techniques were used to enhance the extraction quality of the subject.

- **CodingHub**   November 2023

Technology used: HTML, CSS, JS, SwiperJS

https://github.com/Kp4103/Codinghub

  - A web-based educational platform designed to help users enhance their coding skills through a variety of courses.
  - The project was created as a part of inhouse internship project. HTML and CSS were used to structure and style the website.
  - JS was used to add animations and responsiveness to the website.
  - A live code interpretor was added into the website using SwiperJS.

- **AI Intelligent Camera**   February 2024

Technology used: Machine Learning, Computer Vision, API, Python, Web Development

https://github.com/Kp4103/RJPOLICE_HACK_238_PIXASHIELD_3

  - Developed a crime detection model based on YOLO v8 architecture, focused to be used at various public and private locations for enhanced security.
  - Computer Vision was used to process input images and videos to aid detection.
  - APIs were used for alarm systems once detections were done.
  - Streamlit was used in order to create a simple user interface.

- **SocialMood**   October 2024

Technology used: NLP, Web Development, Streamlit, PRAW

https://github.com/Kp4103/SocialMood

  - A sentiment analysis application that leverages Natural Language Processing for sentiment prediction of movie reviews.
  - Leverages PRAW which an API for Reddit, to fetch post content from Reddit.

AWARDS

- **Runner-up in Deep Learning Hackathon 2023**   April 2023

Thakur college of Engineering and Technology

Recognized for leveraging YOLO v5 to create an effective and efficient model focused on detecting and identifying broken TVs and Mugs.

- **Winner at Rajasthan Police Hackathon**   February 2024

Rajasthan State Police

Developed a crime detection model based on YOLO v8 architecture, focused to be used at various public and private locations for enhanced security.

POSITIONS OF RESPONSIBILITY

- **ISTE-TCET**   September 2022 - April 2023
  Supervisor
  - Guided a team in coordinating technical workshops and events, ensuring seamless execution.
  - Ensuring welfare and conduction of events for first year students.

- **SORT-TCET**   June 2023 - April 2024
  Joint Event Manager
  - Planning, scheduling and co-ordination of events.
  - Approaching social organizations for discussion and arrangement of required equipments