

SHIKHA YADAV

Mumbai, India 421301 • shikhaydv1012@gmail.com • 9137104084 • [Linkdin](#) • [GitHub](#)

CAREER OBJECTIVE

A recent B.Tech graduate specializing in Artificial Intelligence and Machine Learning, adept at leveraging analytical skills and technical expertise to develop intelligent systems and derive meaningful insights from complex datasets. Possesses experience in data cleaning and automation, along with proficiency in Python, OpenCV, OCR and Deep Learning frameworks. Thrives in collaborative environments and is eager to contribute to a team's success.

SKILLS

- | | | | | |
|----------|--------------------|------------------|-----------|-------|
| • Python | • Machine Learning | • Tensorflow | • Pytorch | • CNN |
| • OpenCV | • Object Detection | • Pandas & NumPy | | |

PROJECTS

Weapon Detection and alarm system (Aug 2022- Oct 2022).

[Link](#)

- Developed a weapon detection system for security using OpenCV and deep learning. The project involved data collection and annotation, model training, real-time detection, and email alert implementation. Utilized Open CV for image processing, enabling accurate detection of multiple weapons in various images with high accuracy

Number Plate Detection and Recognition System

[LINK](#)

- Developed a system for number plate detection and recognition using OpenCV and Easy OCR.
- The system employs Haar cascade classifiers for detecting number plates and Easy OCR for recognizing the characters on the plates.
- Recognition using Easy OCR and utilize Easy OCR to recognize the characters on the detected number plates for further processing and data extraction. .

Chest X-ray Diagnosis(Jan 2023 - Apr 2023)

[LINK](#)

- Developed a deep learning model to automate chest X-ray diagnosis for diseases like Pneumonia and Tuberculosis using ResNet50. Trained on a dataset of 50,000 images, achieving 92% accuracy. Additionally, implemented image processing techniques using Python and OpenCV to detect pneumonia clouds in analog chest X-rays by segmenting lung regions with Otsu thresholding and computing the ratio of healthy to infected areas.

EXPERIENCE

Thomas Cook, Mumbai (Data Analytics/Process Excellence)

PYTHON DEVELOPER INTERN (JUN 2023 – SEP 2024)

- Automated Data Cleaning and Management: Developed a Python script to automate data cleaning and management tasks within a large Excel dataset.
- Create visualizations with libraries such as pandas and NumPy for data manipulation.
- Ensure data quality and accuracy by using pandas for data validation and cleaning.

ID Card Detection and Flattening System

- An automated system for detecting and flattening ID cards within images.
- Identify the four corner points of the card, even in perspective-distorted images.
- This enables efficient Optical Character Recognition (OCR) on such ID cards, streamlining data extraction processes.

EDUCATION

- | | |
|--|-------------------------------------|
| • Smt . Indira Gandhi college of Engineering
Bachelor of Technology in Computer Science and Engineering (AI & ML) | Mumbai, India
2020 - 2024 |
|--|-------------------------------------|

ACADEMIC ACHIEVEMENTS AND CERTIFICATIONS

- Research Paper Publication in IRJIET
- Internship Certificate Jun 2023 - Sep 2023 (3 months)