Makrand Dhanokar

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EDUCATION

Program	Institution	% / CGPA	Year
B.E. in Information Technology	Modern College of Engineering, Pune	9.2	2024
XII (HSC)	Vidyadham Science Junior College	71.08%	2020
X (CBSE)	P.S.B.A English School, Aurangabad	83.2%	2018

Scholastic Achievements

- Ranked in the **top 5%** of my engineering cohort for **four years**.
- Winner M-pulse Ignite **- Bug Bounty 2023**

Skills and Certification

Skills and Tools

Software: MATLAB, Operating System ,Google Colab, GitHub, GitLab

Programming Languages: C, C++, SQL[1]

Libraries: NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras, Seaborn, OpenCV.

ML algorithms: Linear Regression, Decision Tree, Random Forest, XGBoost and Neural Networks: ANN[2] & CNN[3]

Certification

NPTEL (Design and Analysis of Algorithm) | TCR (Frontend Web Development) | YBI (Fundamental of ML)

PROFESSIONAL EXPERIENCE

TCR Innovation-Mumbai (Remote)

(July 2022 – Sept 2022)

- Completed internship at TCR Innovation
- Designed and developed a project using HTML, CSS, and Bootstrap
- Enhanced problem-solving skills and fostered effective teamwork
- Enthusiastic about applying strong front-end development skills to create immersive and user-centric web experiences

PROJECT EXPERIENCE

B.E. Project
MACHINE LEARNING

Crop Prediction Model

- Developed a crop prediction model using the Random Forest algorithm.
- Implemented Streamlit for a user-friendly front-end interface.
- Accurately forecasts crop type, yield, and fertilizer requirements.
- Project link: https://makranddhanokar-crop-prediction-main-5n32o9.streamlit.app

Detection Model
MACHINE LEARNING

Rider Detection and Helmet Detection, License Number Extraction to automate Helmet Violation Fines

- Utilize YOLO (You Only Look Once) for efficient object detection.
- Implement YOLO to detect riders and helmets in real-time.
- Extend the system to extract license plate information.
- Project link: https://github.com/MakrandDhanokar/Helmet-Detection

Detection Model
DEEP LEARNING MODEL

Face Mask Detection

- Face mask detection model loaded with Pickle and a face detection model (MobileNetV2) using OpenCV's Haar Cascade classifier for robust real-time face detection.
- Detected faces are processed and labeled based on mask presence. The result, either "Mask" or "No Mask," is displayed on the frame
- Project link: https://github.com/MakrandDhanokar/Face-Mask-Detection

Book Library
WEB DEVELOPMENT

Book HUB

- The project aims to provide personalized book recommendations by leveraging a user's preferred genre within a comprehensive book library.
- The system encourages user engagement by allowing them to input their preferred genres, explore recommendations, and enhance their reading experience with a curated list of books that align with their literary interests.
- Project link: https://makranddhanokar.github.io/Bookhub.github.io

Smart Drowsiness Alert System
DEEP LEARNING MODEL

Drowsiness Monitoring and Alert System for Security

- This project is a real-time drowsiness detection system using a webcam. It combines Haar cascades for face and eye detection with a pre-trained CNN to identify closed eyes.
- An alert is triggered if drowsiness is detected, playing an alarm sound and potentially saving an image. The system serves as a safety measure for identifying signs of drowsiness in individuals.
- Project link: https://github.com/MakrandDhanokar/Drowsiness-Detection

POSITIONS OF RESPONSIBILITY

ISD
RC PESMOCE-IT
(july 2022- july 2023)

- As International Service Director at Rotaract, led global initiatives promoting cross-cultural understanding, coordinating international projects, and collaborating with Rotaract clubs worldwide.
- Cultivated a sense of global citizenship and responsibility, contributing to Rotary's mission of advancing peace and goodwill on an international scale.

NSS Volunteer
(july 2021- ongoing)

- As an active participant in the National Service Scheme (NSS), engaged in community service initiatives, demonstrating commitment to social responsibility.
- Represented college in a winter camp, led community outreach in a village, showcasing strong interpersonal skills and commitment to addressing local challenges.

EXTRA-CURRICULAR ACTIVITIES

Environmental Club

- Active in Prayas Youth Foundation's Environmental Club, I plant trees and make sure they thrive. Committed to greening our surroundings one tree at a time.

[1] Structured Query Language, [2] Artificial Neural Network, [3] Convolutional Neural Network