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PROJECTS

Plant Health Identification

- Collected the datasets from internet.
- Trained model on 300k images with around 1000 species around globe.
- Trained model using Tensorflow Keras
- Implemented **Keras** model for real-time health detection of plants.
- **Technologies used:** Python, OpenCV Keras.
- **GitHub link:** <https://github.com/mahatosumit/Plant-Health-Identification>

Plant classification

- Collected the data from different sites on internet(unsplash, pixar etc.)
- Labeled the data using labelling
- Trained model using Yolov8 and Tensorflow Keras
- Implemented both **YOLOv8** model and **Keras** model for real-time detection of plants.
- **Technologies used:** Python 3.11, OpenCV (cv2) 4.8.1, YOLOv8 (ultralytics), Keras.
- **GitHub link:** <https://github.com/mahatosumit/Plant-classification>

Drowsiness detection

- Developed a model that detects whether the person is feeling sleepy or not.
- Trained model using YOLOv8.
- **Technologies Used:** Python, OpenCv
- **GitHub Link:** <https://github.com/mahatosumit/Drowsiness-detection>

TaskNest

- Developed a fully functional website with multi-function for a students.
- Created different web pages and combined it together.
- Deployed and shared it using github.
- Technologies Used: Javascript, HTML, CSS, Tailwind css, Bootstrap, fontawesome, APIs
- Link to **TaskNest** : <https://mahatosumit.github.io/TaskNest/>

Frontend of Fashion Ecommerce Site

- Developed a web page of fashion site.
- **Technologies used:** HTML, CSS, Tailwind Css and Bootstrap Framework
- Website link: https://mahatosumit.github.io/Fashion_website/

SKILLS

Technical: UI/UX Design, Web Development, Data Preprocessing and analysis, Machine Learning, Deep Learning(Computer Vision), PCB Design

Languages: Python, Javascript.

Libraries: React, NextJs, Numpy, Pandas, Matplotlib, Streamlit, OpenCV, YOLOv, Scikitlearn, Tensorflow Keras.

Version Control: Git, Github **Operating System:** Linux (Kali, Parrot, Ubuntu), Windows

EXPERIENCE

Mayagreens

Mayr2024 to Present

Deep Learning Engineer

- Worked on Computer Vision project to identify the plants.
- Developed a datasets and trained computer vision model that can able to identify the plants.

AWARDS & CERTIFICATIONS

- Participated in Inter-school Science exhibition and got best presentation award.
- Participated in Hetauda Sub-metropolitan city science exhibition and secured 1st rank.
- Participated in college Science Day and Selected for Best Project.

Jan 2019

Feb 2019

Feb 2024

- Introduction to Graphics Design(UI/UX)
- Python For Beginners.
- Become a Deep Learning Engineer(Pytorch)
- Robotics and AI

Jan 2024

Jan 2024

Mar 2024

Aug 2024