Pranay M. Bobade

pranaybobade1@gmail.com
Nagpur, Maharashtra, India || 744-812-9289
LinkedIn || GitHub

CAREER OBJECTIVE

As an enthusiastic Python-AI developer and Data Scientist, I am dedicated to expanding my technical expertise and leveraging it in the domains of machine learning, deep learning, and data science. With a strong foundation in Python, I'm actively engaged in deep learning and computer vision, supported by valuable experience gained during my recent internship, where I worked on data science projects and contributed to innovative solutions in these fields.

EDUCATION

G H Raisoni Institute Of Engineering And Technology, Nagpur August 2019 - August 2023
Bachelor of Technology in Artificial Intelligence 7.86 CGPA

Prerna Junior College, Nagpur February 2019
Higher Secondary Certificate

Smt. G. G. Sarda Higher English School (AVM), Nagpur March 2017
Secondary School Certificate

WORK EXPERIENCE

Data Science Intern January 2023 - July 2023
Lincode Labs India Pvt. Ltd.

- Worked on real-time projects as well as products which primarily focuses on visual inspection of the industrial based equipment for better productivity and Effectiveness.
- Created docker containers for inference of object detector models to eliminate dependencies issue.
- Written python scripts for extracting result information and coordinates from the YOLO inferred images in txt (darknet), json and xml formats for auto annotation work.
- Written python scripts for image filtering and image segmentation.
- Worked on MongoDB using python pymongo library to store unstructured data eg. images and videos
- Used Redis to manage cache memory and to trace the code base while testing.
- Worked on data collection, data preprocessing, data augmentation, model training and model inference.
- Also worked on Python GUI library tkinter and ctkinter for user interface and integrating it with backend codebase.

Data Science Intern August 2021 - September 2021
The Sparks Foundation

- Prediction of data using supervised machine learning techniques such as Linear Regression and Logistic Regression.
- Prediction of data using unsupervised machine learning techniques such as K-means clusters.
- Using that prediction to analyse and extract useful insights.

PROJECTS

Object Measurement Using OpenCV

- The approach was to measure the dimensions of any objects in our day-to-day life like books, phones, etc using computer vision libraries like opencv.
- To eliminate the high and complex mathematical computation, I have used Aruco marker which is already in-built in our augmented physics and has a fixed dimensions of 5x5.
- Aruco markers act as a reference object inside the frame to detect and measure the dimensions of other objects.

Plant Disease Detection System

- The approach of the project was to detect the disease of the infected plants.
- We used Deep learning techniques i.e. convolution neural networks to deal with this detection problem.
- We trained our dataset using a custom Convolutional Neural Network (CNN) that we built using the TensorFlow framework in python.

SKILLS AND LANGUAGES

Technical Skills : Python | Machine learning | Deep learning | Computer vision | Mysql | MongoDB | Redis | Docker | Git | Flask | Ubuntu linux | Windows |

Soft Skills : TeamWork | Communication | Storytelling | Curiosity | Leadership | Management

Languages : English | Hindi | Marathi

ACHIEVEMENTS

- Published research paper in IJSDR on Plant Disease Detection System.
- 3rd Runner Up in Wells Fargo Quantitative AI Hackathon (IIT, Madras)