Siddharth Singh Yadav

Email: siddharthsy1606@gmail.com
Mobile: 91-9548047367
LinkedIn: www.linkedin.com/in/siddharth-singh-yadav-b1b058232/

EDUCATION

Indian Institute of Information Technology, Manipur   Imphal, India
Bachelor of Technology in Electronics and Communication Engineer, CPI: 8.51(8th semester)   *Nov 2020 - June 2024*
Recipient of the College Gold Medal for Academic Excellence

EXPERIENCE

Software Developer Engineer   June 2024 – Current
Noetic Logistiex   *Onsite*
- Developed and maintained **Python Flask** APIs for price insight project, scraping data from e-commerce websites and providing dynamic price recommendations using **ML** algorithms.
- Developed Spring Boot APIs for order management with NDR and verification services, and integrated WhatsApp notifications— boosting processing efficiency by 15% and customer engagement by 25%.

Software Intern   Jan 2024 – April 2024
Noetic Logistiex   *Remote*
- Worked on the development of a **Python** script for **automating image processing** tasks tailored for e-commerce platforms (Flipkart, Amazon, Ajio, Myntra, Nykaa etc).
- Leveraged libraries such as **OpenCV**, **NumPy** and **PIL** to implement sophisticated image processing algorithms.
- Finetuned and tested various machine learning models for background removal.

Computer Vision Intern   Feb 2023 – Sept 2023
Dantani Sports   *Remote*
- Developed high-accuracy **object detection** algorithms (mAP: 99.73%) for logo detection, benchmarking 7+ state-of-the-art models (YOLOv8, YOLOv7).
- Implemented **data augmentation** pipelines to generate synthetic datasets, reducing dependency on manual labeling.
- Optimized inference time by hyperparameter tuning and troubleshooting training/inference bottlenecks.

Computer Vision Intern   Dec 2022 - Jan 2023
Sponsorlytix   *Remote*
- Curated and labeled datasets for training **object detection** models (YOLOv7, YOLOv6) across diverse applications.
- Trained various object detection models like YOLOv7, YOLOv6 and more on a range of datasets to address specific use cases.
- Done **hypertuning** and **evaluation** of object detection models to achieve high accuracy, precision and better generalization.

TECHNICAL SKILLS

Languages: Python, Java, C++

Frameworks/Libraires: Springboot, Flask, Selenium, TensorFlow, OpenCV, PIL, Mediapipe

Domains: Machine Learning, Computer Vision, Deep Learning, Image Processing

Dev Tools: Visual Studio Code, Intellij, Git/GitHub, GCP Cloud, Google Colab, Jupyter Notebook, Amazon Sagemaker, Roboflow

Concepts: Data Structure and Algorithms, OOP, System Design

PERSONAL PROJECTS

Rep Counter   Source Code
- Fitness tracking system that leverages **Python**, **Flask**, and **computer vision** technologies for real-time exercise analysis.
- Integrating **OpenCV** and **MediaPipe** libraries to process real-time webcam streams, accurately computing joint angles, and delivering high-precision pose estimation results.
- Designed an engaging web interface that allows users to select exercises and receive immediate feedback on repetition counts, enhancing the fitness monitoring experience.

Image Similarity Search   Source Code
- Trained model is used to extract the features, and performs a similarity search, allowing users to find visually similar images   to a given query image in the database.
- Made **Deep learning classification** model, trained on a dataset containing more than 10 different species of flower.
- Used Nearest Neighbors algorithm to find the closest images based on the cosine similarity between their feature vectors, providing an efficient and effective image retrieval system.