# Siddharth Singh Yadav

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## 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 a **Selenium**-based web scraper to extract product data from multiple e-commerce platforms (Amazon, Flipkart, Meesho).
- Designed and deployed **Flask** APIs with **MongoDB** integration to serve ML-driven price optimization and insights.
- Achieved up to 20% improvement in pricing strategy by applying **ML** algorithms to predict the most profitable selling price.

**Software Intern** — Jan 2024 – April 2024
***Noetic Logistiex*** — *Remote*

- Built and deployed an **ML**-powered image background remover and resizer tailored to e-commerce platform requirements.
- Exposed functionality via **Flask** APIs and stored processed image metadata in **MongoDB** for efficient retrieval.
- Automated image standardization for 1,500+ product categories, reducing manual editing time by over 80%.

**Computer Vision Intern** — Feb 2023 – Sept 2023
***Dantani Sports*** — *Remote*

- Designed an automated **image augmentation** algorithm to generate synthetic datasets by overlaying logos onto varied backgrounds at random positions, creating 10,000+ labeled images.
- Reduced manual labeling time by over 90% for **object detection** tasks by auto-generating bounding box annotations.
- Trained and fine-tuned YOLOv7/v8 models on the generated dataset, achieving up to 92% mAP in logo detection accuracy.

**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++, HTML, JavaScript

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

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

**Concepts:** Data Structures and Algorithms, OOP, System Design,

**Database/ORM:** MongoDB, SQLAlchemy

**Dev Tools:** Docker, GCP, Git/GitHub, VS Code, Google Colab, Jupyter Notebook, Amazon Sagemaker, Roboflow

## PERSONAL PROJECTS

**Rep Counter** — Source Code

- Developed a real-time exercise posture tracker using **MediaPipe** and **OpenCV** to monitor human pose and count reps for exercises like push-ups and squats.
- Implemented pose correction feedback and rep validation, achieving accuracy in detecting correct vs. incomplete reps.
- 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 theirfeature vectors, providing an efficient and effective image retrieval system.