

# SAMUNDER SINGH

Proficient in Python development, machine learning, computer vision, and NLP Working on large language models. Skilled in Django , Fastapi, Docker, AWS, and passionate about advancing in these fields.

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## EXPERIENCE

### Unify.AI, TensorFlow, Jax — Open Source developer

Jun 2023 - PRESENT

- Contributing to a Unify[ivy] ML framework for model creation and deployment across multiple backends.
- Boosted ML frameworks via 25+ merged PRs across JAX, NumPy, PaddlePaddle, TensorFlow, PyTorch, and Ivy, enriching APIs and diversifying neural network activations.  
**Tools used:** TensorFlow, JAX, PyTorch, NumPy, PaddlePaddle

### Aaranyak, India — Computer vision Intern

Feb 2023 - June 2023

- Developed a vision model to estimate Rhino height with the help of 3D vision and object detection.
- Utilized stereo depth estimation and object detection to build a geometric model to estimate height.  
**Tools used:** hugging face , computer vision, tensorflow

### SmartKnower, India — Data Scientist intern

Jan 2022 - PRESENT

- Interactive COVID-19 Dashboard: Enabled exploration of regional COVID-19 trends via an intuitive Tableau interface.
- Deployed a spam mail classifier on heroku by leveraging svm and xgboost algorithm.  
**Tools used:** python , flask, gcp, pandas, sql

## PERSONAL PROJECTS

### Sign Language Detection | [Code](#)

- Objective:** To create a computer vision model that converts real time signs into language that help to interact with deaf people.
- Tools used:** Python,mediapipe holistic , cv2, tensorflow, flask

### Travel Chatbot | [Code](#)

- Objective:** This project implements a travel chatbot powered by the RAG (Retrieve and Generate) chain, providing real-time information retrieval using various tools search and weather
- Tools used:** Python, langchain, RAG, OpenAI, github action,streamlit

### Yolo V7 Custom Train | [Code](#)

- Objective:** train the YOLOv7 object detection model on a custom dataset of aquarium images containing fish and aquatic creatures.
- Tools used:** Python,object detection ,wandb,tensorflow , cv2

## SKILLS

Data structures & Algorithms.  
Python, Tableau, Django  
HTML, CSS, Tensorflow, pytorch,  
Github actions , sagemaker  
Operating Systems(Linux)  
Cloud(AWS Basics)  
Database(MySQL Basics)  
Technology : python developer,  
machine learning, computer vision ,  
Nlp, llm

## EDUCATION

*B.Tech - Electronics and communication engineering*

Tezpur university assam , india

*High School*

S.b.m sen. Sec. school suratgarh, Rajasthan , india

## Course and Certification

- Specialization in deep learning | deeplearning.Ai
- Specialization in machine learning | deeplearning.Ai
- Generative AI with Large Language Models | AWS, deeplearning.Ai