

# Samunder Singh

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## Experience

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### Lincode.ai

Associate Data Scientist

May 2024 – Present

Bengaluru, India (Hybrid)

- Developed real-time object detection systems using YOLOv8 and DETR for visual inspection in production
- Built automated pipelines for image segmentation and OCR with PaddleOCR, boosting text extraction accuracy
- Developed CLIP-based auto-labeling and anomaly detection workflows, optimized for multi-GPU clusters

### SmartKnower

Data Scientist Intern

Jan 2022 – Apr 2022

Remote

- Built interactive Tableau dashboard for COVID-19 analytics.
- Deployed XGBoost/SVM spam classifier (F1-score: 0.96) on Heroku.

## Open Source Contributions

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### Keras

Open Source Developer

aug 2025 – Present

Remote

- Contributed **6 pull requests** to implement numpy functions for opencv backend [see more].

### Unify.AI

Open Source Developer

Jun 2023 – Present

Remote

- Contributed **80+ pull requests** across JAX, PyTorch, TensorFlow, and PaddlePaddle [see more].

### CrossGL / CrossTL

Open Source Contributions

Jun 2024 – May 2025

Remote

- Implemented a universal shader (IR) for CrossGL that enables translation between any shader language and the CrossGL IR, and back [see more].

## Education

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### Tezpur University

B.Tech in Electronics & Communication Engineering

Assam, India

2020 – 2024

## Projects

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### SLX

Slang, PyTorch, python, Cuda

- SLX is a high-performance deep learning framework built on top of PyTorch, designed for efficient tensor operations with support for custom shader-based kernels through Slang

### Shruti-Drishti

Python, Mediapipe, TensorFlow, Flask

- App for real-time ISL recognition using Mediapipe, CNN, and LSTM (90%+ accuracy).
- Won award at Hasgeek hackathon for developing real-time Indian Sign Language detection using Mediapipe Holistic

### LLM Playground

Docker, Gcp, Streamlit

- Chatbot Arena: Benchmarking LLMs in the Wild. build chat interface where the user enters a prompt and simultaneously sees the output from the two chosen the best performing llm.

## Technical Skills

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**Languages:** Python, SQL, C++, CUDA

**Frameworks:** PyTorch, TensorFlow, JAX, PaddlePaddle, Keras, Django, fastapi

**Infra:** Docker, GitHub Actions, GCP, AWS, Terraform

## Certifications

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Deep Learning Specialization – deeplearning.ai

Machine Learning Specialization – deeplearning.ai

Generative AI with Large Language Models – AWS, deeplearning.ai