

Samunder Singh

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PROFESSIONAL SUMMARY

Data Scientist with experience in computer vision, deep learning. Proficient in PyTorch, TensorFlow, CUDA, Django, FastAPI, and Flask. Deployed production ML models and built scalable AI pipelines. Open-source contributor with 80+ merged PRs.

EXPERIENCE

Associate Data Scientist <i>Lincode.ai</i>	May 2024 – Present Bengaluru, India
<ul style="list-style-type: none">Developed real-time object detection systems using YOLOv8 and DETR for visual inspection in productionBuilt automated image segmentation and OCR pipelines with PaddleOCR, boosting text extraction accuracyDeveloped CLIP-based auto-labeling and anomaly detection workflows optimized for multi-GPU clusters	
Data Scientist Intern <i>SmartKnower</i>	Jan 2022 – Apr 2022 Remote
<ul style="list-style-type: none">Built Tableau dashboard for COVID-19 analytics and deployed XGBoost/SVM spam classifier (F1: 0.96) on Heroku	

OPEN SOURCE CONTRIBUTIONS

Open Source Developer <i>Keras</i>	Aug 2024 – Present Remote
<ul style="list-style-type: none">Contributed 6 PRs implementing NumPy functions for OpenVINO backend	
Open Source Developer <i>Unify.AI</i>	Jun 2023 – Present Remote
<ul style="list-style-type: none">Contributed 80+ PRs to Ivy ML framework across JAX, PyTorch, TensorFlow, and PaddlePaddle backendsImplemented non-linear activations and statistical functions enabling cross-framework code conversion	
Open Source Contributor <i>CrossGL / CrossTL</i>	Jun 2024 – May 2025 Remote
<ul style="list-style-type: none">Implemented universal shader IR for CrossGL enabling bidirectional translation between shader languages	

PROJECTS

SLX - High-Performance Deep Learning Framework <i>Slang, PyTorch, Python, CUDA</i>	
<ul style="list-style-type: none">Built high-performance deep learning framework on PyTorch with custom shader-based kernels using SlangDesigned architecture enabling seamless integration of custom CUDA kernels with PyTorch operations	
Shruti-Drishti - Real-Time Indian Sign Language Recognition <i>Python, Mediapipe, TensorFlow, Flask, CNN, LSTM</i>	
<ul style="list-style-type: none">Developed real-time ISL recognition app achieving 90%+ accuracy using CNN, LSTM, and Mediapipe HolisticWon award at Hasgeek hackathon for innovative ISL detection solution with Flask-based deployment	
YOLO LangChain Agent - train, validate, export yolo model with natural language <i>yolo, langchain, python</i>	
<ul style="list-style-type: none">A powerful LangChain agent that integrates Ultralytics YOLO with OpenAI for intelligent object detection model training, validation, and deployment.	

EDUCATION

Tezpur University <i>Bachelor of Technology in Electrical, Electronics and Communications Engineering</i>	2020 – 2024 Tezpur, Assam
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TECHNICAL SKILLS

Languages: Python, C++, CUDA, SQL
ML/DL Frameworks: PyTorch, TensorFlow, JAX, Keras, OpenCV, PaddleOCR, YOLO, DETR, CLIP, Mediapipe
Backend & Tools: Django, FastAPI, Flask, MongoDB, Docker, AWS, GCP, Streamlit, Git, Tableau, Heroku
Specializations: Computer Vision, Deep Learning, NLP, MLOps, RAG, Self-Supervised Learning, CNN, LSTM, XGBoost, SVM