

# Ankan Ghosh

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## EXPERIENCE

### AIVAR - AWS PARTNER | SENIOR MACHINE LEARNING ENGINEER

Sept 2025 – Now | Bengaluru, IND

- Leading all the Vision projects, managing teams of 20+ Engineers.
- Delivered 3 projects, includes Medical(Image Semantic Segmentation), Civil(Tile Detection and Extraction), Finance(OCR and RAG Pipeline) using AWS(Sagemaker, ECS, Batch, S3, DynamoDB, SQS, CloudWatch) infra.
- Architecting solutions for clients like Swiggy, Licious, Zepto, LendenClub.

### OPENCV | SENIOR COMPUTER VISION ENGINEER

Oct 2023 – August 2025 | Bengaluru, IND

- Lead R&D at OpenCV University, architected solutions from PoC to Prod deployment with latest CV (CNNs, YOLO11, SAM2, ViT, OpenCV, DETR, SDXL, NeRF, 3DGS) and NLP (VLMs, PEFT, RLHF, SFT, LORA, MCP, ADK).
- Worked on internal CRM OpenCV-SyncX, automated the production deployment on AWS (EKS, EC2, Lambda, S3, EKS, RDS, DynamoDB).
- Engineered LLM Workflow with 82.5% accuracy for sales call analysis using HuggingFace, OpenAI, FastAPI, WhisperX, deployed on AWS(EC2, S3, RDS).
- Built OpenCV Demo Website, developed 20+ Computer Vision, LLM Apps.
- Mentored Juniors, Assisted Marketing and Sales, Lead the Blog Team.

### IIT GANDHINAGAR | COMPUTER VISION INTERN

Sep 2022 – Feb 2023 | Gandhinagar, IND

- Implemented Depth Estimation on OAK-D and deployed on Jetson Nano.
- After my contribution, the startup was selected for the META XR Program.

## PERSONAL PROJECTS

### PIXELFUSION | Live Demo | 16.5k Twitter views

GitHub | Python, TensorFlow, Gradio, HuggingFace

- Gradio Demo for Artistic Neural Style Transfer

### SEGMAGINE | Live Demo | 21k Twitter views

GitHub | Python, PyTorch, Gradio, HuggingFace

- Gradio demo for Segment Anything Model (SAM) by Meta

### DOCUMIND | Live Demo | 2k Twitter views

Llama, Qwen, Gemma, LangChain, Weaviate, Qdrant, Gradio

- End-to-End RAG Application for document analysis.

### MEDGEMMA MEDICAL IMAGE ANALYSIS | Live Demo

Python, Gemma3, PyTorch, Transformers, Gradio

- Medical QnA and report generation using Medgemma

## PUBLICATIONS

### FINETUNING SAM2 | Blog | 200+ Likes in LinkedIn

### YOLOV11 | Blog | Cited by 2 paper | Shared by Ultralytics

### FINETUNING RETINANET WITH PYTORCH | Blog | Dubai Expo

### YOLOV8 OBJECT TRACKING | Blog | Offer from Liquid Trees, SF

## EDUCATION

### IIT ROORKEE

DEEP LEARNING & AI

Sep-Feb 2021 | Roorkee, IND

### MAKAUT IN-HOUSE

BS IN IT(AI)

2020-2023 | Kolkata, IND

School of Info Sc & Tech

CGPA: 9.2 / 10

### BOLPUR NNB HIGH SCHOOL

May 2019 | Kolkata, IND

10+2: 82% | 10: 88%

## LINKS

Twitter:// ankanpy

Github:// ankanpy

Sessionize:// ankan

HuggingFace:// ankanpy

Google Scholar:// ankan

## SKILLS

### TECH STACK

Over 5000 lines:

Python • Gradio • FastAPI • StreamLit  
Keras • Pytorch • OpenCV • C++ • JAX  
Transformers • Diffusers • TRL • LeRobot

Over 1000 lines:

LangChain • Ollama • RAG • TensorRT  
LlamaIndex • vLLM • Vector DB • GGML  
LORA • RLHF • SFT • Unsloth • RoPE  
Git • Docker • AWS • GCP • Kubernetes

### AWARDS | CERTIFICATES

SIH22-Finalist | Hack4Bengal-2nd

Amazon-ML Challenge-47th

Deep Learning Specialization

Mastering OpenCV with Python

AI for Everyone: Master the Basics

GSSOC'22 | NVIDIA AI Summit'24

CCD'23 | PyCon-Ind'23 | Google I/O

## TALKS

### VISIONCRAFT

April 2024 | Indore, IND

- Two-days session + workshop on OpenCV at PIEMR Indore

### TECHX BANGALORE

December 2024 | Bangalore, IND

- One-day OpenCV workshop jointly organized by IEEE and Christ University.