



Sikha Singh

Research & Development Engineer

A Passionate developer with 3+ years of experience in machine vision, AI, and robotics. I am a computer vision enthusiast. I develop algorithms that enable computers to see and interpret the world around them. I have a passion for artificial intelligence and machine learning, and I apply these technologies to solve problems in the real world.

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📍 Pune, India

WORK EXPERIENCE

Research & Development Engineer (Industry 4.0) Kalyani Strategic Management Services

06/2020 - Present Pune, India
Formerly Known as Kalyani Technologies

Role

- Working as an R&D engineer & Project Owner - Computer Vision in Project MPI-CV, QAFI, Developing machine vision solutions as well as AI solutions to automate the industry
- Worked with Stanford Team for Pufferfish Ventilator Development
- CSR CoE Vidya Pratishthan: Center of Excellence in Artificial Intelligence and Data Science
- Collaborated with ISBLRT Team for Computer Vision Handbook for Industry 4.0

AI Developer Teksun Microsys Pvt. Ltd.

12/2019 - 06/2020 Ahmedabad, Gujarat

Role

- Worked as an AI developer on Smart Coach- personal gym trainer for US client.
- Guiding Interns, Hiring Candidates(Technical)
- Worked on Training custom neural network models/data for custom activity recognition on real-time streams and deployment on the AWS cloud. Worked as AI Developer analyzing company business in the sector.

ML/Python Developer SNDK CORP

03/2019 - 12/2019 Ahmedabad, Gujarat

Role

- Worked as ML/Python developer on SpikeBot-A real time human/Intruder identification bot on 8-channel DVR camera streams which sends notification to each registered user using AWS S3 bucket and AWS cloud systems.
- Worked on Iris and face detection based attendance systems for company employees.
- Worked on identification of fake application for police department of government of Gujarat.

PROJECTS

Painter Robot , Spikebot, AGV

Pufferfish - Ventilator , Project - Sanjeevani

MPI-CV , QAFI , OCR

CSR Project - CoE Lab Setup - AI/ML/Robotics/CV Lab

EDUCATION

B.E - Electronics & Telecommunications Vishwaniketan's iMEET, Khalapur

2018

SKILLS

Image Processing

Machine Learning/AI

Python,C,Matlab

HMI Design

Computer/Machine Vision (Industrial)

Prototyping

Ladder Logic

HTML,CSS, SQL

Siemens PLC

Neural Networks, Tensorflow, PyTorch

Project Ownership

Product Development

Industrial IoT

Flask, PyQT Designer

Project Management

Vendor Management

Socket/Bash Programming

R&D on Medical Devices

SoC Boards

EC2 Instances, S3 Bucket Configuration

ACHIEVEMENTS

Secured 1st Position in Drone Flying

Secured 1st Position in Sports event held at college/District Level

Department President and cultural/Technical secretary at college level

Qualified national level project competition-AVISHKAR

CERTIFICATES

Industry 4.0 Level 1- Module 1 - Industrial training
PLC, Pneumatics, hydraulics, HMI CTPP (CTTP, BFL)

VAP in Embedded C, C and MATLAB
ViMEET

National Level Project - AVISHKAR
ViMEET

Python for Computer Vision with OpenCV and DL , Neural Networks in Python
Udemy

Python and Flask BootCamp, Adobe XD UI/UX Design, Prototype, Handoff from scratch
Udemy

Industrial Robotics
Udemy

AWS S3 Basics, Jira Basics, Project Charter with Google Docs
Udemy

Object Localization with TF and Creating MultiTask Models with Keras
Coursera