Priyanka Singhal

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EXPERIENCE

Saara.io

Data Scientist – Computer Vision
March 2020 –Present

We help online stores and fulfilment centres to Reduce, Automate and Monetize returns.

- Build a retail analytics system to track people in a store. Our system calculates the number of people passing by a line. Our clients include Decathlon, fossil, airbnb, etc.
- Build a system that grades the products(footwear and apparel). Also identify the defect in the product which includes tear, stain, etc.
- Worked on product tagger for footwears and apparel to identify the multiple properties of the products.
- Used AWS sagemaker for model deployment.
- Used azure system for training and azure api for multiple projects.
- Worked on raspberry, jetson nano.

InterProducTec Virtual Lab Pvt. Ltd, Navi Mumbai

Jr Software Engineer – AI/ML Developer

July 2019 - Feb 2020

Trainee Software Engineer – AI/ML Developer

Dec 2018 - June 2019

Applying AI to various areas of the food industry and building intelligent sensor systems which helps the clients to achieve the best quality and most efficient production processes.

- Building deep learning models to identify the products location and classify them.
- Used yolov3 for object detection.
- Worked on ROS and data management

Om Siddh Vinayak Impex Pvt. Ltd, Gandhidham
Computer Vision Intern

Jan 2018 - June 2018

Worked on the automation in the cloth recycling process that is rag/wiper making. The goal here is to take the garment and remove any extra parts that may stop it from working perfectly as an industrial grade wiper like removing

SKILLS

Experience Area:
Deep learning, Computer Vision, Machine learning and Software development

Area(s) of Interest: Machine learning, Computer Vision, Deep learning, Algorithm design, Data structure, Image processing

Programming Languages:
Python, Java, C, C++

Tools and Technologies:
Numpy, Pandas, PyTorch, TensorFlow, Docker, ROS(Robot Operating System), Git, Tensorboard, AWS sagemaker, Azure API

Operating Systems: Linux, Windows, Raspberry Pi, Jetson nano

CERTIFICATES

- Finalists of the grand finale of Smart India Hackathon 2018 held in Kurnool.
- Introduction to Modern Application Development, IIT Madras

any hard parts (sewn edges), extra material(sleeves, collars). Second project was to identify the fiber type of the cloth using NIR scanner to scan the cloth and third was to identify the color of the cloth using machine learning and computer vision
Concepts and technologies used:

- Python3, openCV
- Morphological transformation for Background Subtraction, Linear Regression.

IIIT Vadodara, Gandhinagar
AI Research Intern – Facial Expression Recognition

May, 2017 - July 2017

Build a model which classifies human emotions & it also deals with the problem of optimally detecting humans and its face in the given video and identifying the faces. Build using following tools and concepts

- python3, tensorflow
- Convolutional Neural Network (CNN), LBPH and haar features.

PROJECTS

Face recognition using eigen face
Oct 2017 – Nov 2017

Worked on face detection and classification problems. EigenFace with PCA used for feature extraction and build a machine learning model using OpenCV and Python.

Automatic Speaker Recognition System
March 2017 – May 2017

This system made in this project is capable of identifying the speaker. Registered speakers provide a given utterance and the system verifies the speaker by accepting or rejecting the identity claim of a speaker.

Two algorithms are used–

1. MFCC
2. VQ (Vector Quantization) using LBG

Human Detection & Recognition
May 2016 – June 2016

Worked on the problems of human detection, face detection, and face recognition in a video using following technologies and concepts:

- Python3, OpenCV,
- SVM, HOG, Haar features, LBPH features and background subtraction algorithm.