

SIDHARTH DINESH

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EXPERIENCE

IoT Engineer Intern

IoT.in

Oct 2020 – Dec 2020

Pune (Remote)

- Remote-controlled 6-channel relay:
 - Developed code to switch 6-channel-relay based on a JSON file.
 - The processed JSON was parsed to read respective status values (ON/OFF).
 - Connectivity to Ethernet/Wireless was established through C++ curl-library, and alive messages were sent every 5 minutes.
- IP Camera Monitoring Project
 - Live CCTV footage was captured using Shunya OS stack.
 - Objects and Persons in frame were detected using Shunya API.
 - InfluxDB was used for storing the time of detection of an object(s)/person(s).

[Internship certificate]
[Skilling Program certificate]

RELEVANT PROJECTS

1. Object Detection using SSD (PyTorch): [Link]

- Single Shot Detection of a dog jumping in a video was detected and labelled correctly using Multi-box concept.
- Experiment was repeated for a different video of horses galloping and we obtained similar positive results.

2. Image Classification using CNN (Tensorflow): [Link]

- A Convolutional Neural Network was trained for Classification of dogs and cats using Tensorflow 2.0 (with in-built Keras).
- Around 8000+ cats and dogs images were used for training the model, and for 2000+ test set of images, we obtained accuracy of 89.55%.

3. Face Recognition using OpenCV: [Link]

- Using Haar-like features and Cascading: Live Face, Eyes and Smile were detected and rectangles were drawn using OpenCV library.
- Viola-Jones algorithm was the intuition behind this task.

4. Image Creation with GANs: [Link]

- Fake images were generated using Generative Adversarial Networks.

EDUCATION

B.Tech in Electronics and Communication Engineering

Visvesvaraya National Institute of Technology

2018 – 2022

Nagpur

CGPA:8.81

Senior Secondary

CBSE Board

2018

Lucknow

93.4%

Secondary

CBSE Board

2016

Kannur

10 CGPA

SKILLS

Python C/C++ Embedded C
Arduino Linux shell MATLAB
Javascript Git

LIBRARIES

NumPy Pandas Tenserflow Keras
SciKit-Learn PyTorch Matplotlib

CERTIFICATIONS

Deep Learning Specialisation

June 2020

Coursera

Machine Learning

April 2020

Coursera

RESPONSIBILITIES

- Student Mentor at VNIT Nagpur:
Mentoring a batch of 15 first year students.

EXTRACURRICULARS

- Gold Medal secured in 110m Hurdles representing institution in the ALL-INDIA INTER NIT ATHLETICS MEET held in Jan 2020 at NIT Rourkela.