Nirmal Mevada

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WORK EXPERIENCE

Software Engineer Intern
Samsung R&D Institute

01/2020 - 04/2020   *Noida*
Achievements/Tasks
- To develop a state of the art method/model to effectively remove motion blur from a single image & port it to android.

Software Engineer Intern
Ellipsis InfoTech

05/2019 - 07/2019   *Ahmedabad*
Achievements/Tasks
- Built & Deployed an automated attendance system using facial recognition methods on camera feed.

Software Engineer Intern
Ellipsis InfoTech

05/2018 - 06/2018   *Ahmedabad*
Achievements/Tasks
- Developed a ML based tool to automate quality report generation of iron casting using it's microscopic image.

PROJECTS

i - Attendance (05/2019 - 07/2019)
- An automated attendance system using face recognition methods (HOG, Facial land-marking, LBPH) from the live camera feed and track the attendance (in-time).
- Tools & Technologies : OpenCV, Tensorflow

Maze Solver (01/2018 - 04/2018)
- A program that takes binary image based maze as input and uses various path finding algorithms (blind / non-blind) to generate solved image.
- Tools & Technologies : Pillow, Heuristic algorithms

Portable Traffic Signal (01/2019 - 02/2019)
- Proposed a IOT based portable device solution to overcome visibility problem of traffic signal for better fuel savings that broadcasts the timer value based on the orientation of the vehicle.
- Tools & Technologies : IOT Cloud, NodeMCU, App-Inventor

Tetromino (02/2019 - 03/2019)
- Developed a game environment in python of Tetris game and trained a game bot based on reinforcement deep learning method and model free Q learning Algorithm.
- Tools & Technologies : Pygame, Deep Reinforcement Learning

Comparison Study Of Object Detection Methods (03/2019 - 05/2019)
- Implemented & compared of various Object detection techniques such as YOLO, ResNet, RetinaNet, SSD & YOLT for high resolution satellite images.
- Comparison metrics : IoU, AUC, mAR
- Tools & Technologies : Tensorflow, Keras, Nvidia-docker, Git, VGG-IA

SKILLS

`Programming` `Data Structures & Algorithms` `Comfortable :` `C` `C++` `Python` `Familiar with :` `Tensorflow & Keras` `Docker` `Git`

ACHIEVEMENTS & ACTIVITIES

> Courses done: Introduction to Machine Learning by Andrew Ng, CS50 - Introduction to Computer Science & Python for Everybody - NPTEL.

> Idea of "Smart Farming - using agricultural drones" got selected at second stage in Hackathon conducted by Gujarat government.

> Joined with "Chinmay", a complete care school for mentally challenged children and conducted many programs taking initiatives.

> Scored 90% marks in 10th & 84% in 12th standard.

EDUCATION

B. Tech in Computer Engineering (07/2016 - 05/2020)

Institute of Technology, Nirma University
CGPA : 8.2