

909, Sec-29, Noida, India
Linkedin.com/in/ankur-haritosh/
ankurharitosh.github.io

ANKUR HARITOSH

+91 9599764314
AnkurHaritosh@gmail.com
[Github.com/ankurharitosh](https://github.com/ankurharitosh)

WORK EXPERIENCE

Software Development Engineer	CAW Studios, Hyderabad	July 2020 - Present
<ul style="list-style-type: none">Built a web scrapping project using Python & Scrapy. Working on Python & Django.		

Research Internship	Indian Institute of Technology, Delhi	May – July 2019
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Professor: Dr. Tapan Kumar Gandhi (tgandhi@iitd.ac.in)

- Publication:** Research Paper published at 16th IEEE India Council International Conference 2019.
- Developed a tool to track the eye pupil movement using OpenCV, Dlib & Python.
- Created a database with decreasing levels of blurriness using the eye movement on Dog vs Cat dataset.
- Developed a system using Convolutional Neural Network(CNN) & Artificial Neural Network(ANN) in Keras & optimized its performance by 16% when trained iteratively with decreasing blur levels using Hyperas.

Computer Vision Internship	Emuron Technologies, New Delhi	Dec 2018 – Apr 2019
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Supervisor: Mousumi Dhar (mousumi.dhar@emuron.com)

- Developed a Human Gaze & Trajectory Detection system using Python, Dlib & OpenCV for Coffee shops.
- Created an application similar to Facebook Portal using Voila-Jones Face detector, Python & OpenCV.
- Implemented a tool for detecting missing Fridge parts at Assembly Line utilizing Object Detection techniques such as Yolo algorithm in Python & OpenCV after manual annotation of a personal dataset.
- Implemented an algorithm to train a Dlib Cascade on Fridge images dataset after conversion of messy annotation from YOLO to Dlib format.

Machine Learning Internship	Ezops Technologies, Noida	May – July 2018
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Supervisor: Rajeev Jain (rajeev@ezops.com)

- Built a tool to parse Scanned PDF Documents into an excel sheet using Tesseract, Python & OpenCV.

PROJECTS

A novel method to estimate Height, Weight & BMI from Face

Professor: Dr. Satish Chandra (satish.chandra@jiit.ac.in)

- Publication:** Research paper published at 12th International Conference on Contemporary Computing.
- Manually created a faces dataset with 982 subjects having Height, Weight & BMI values.
- Developed an artificial model using CNN & ANN in Keras, Python & OpenCV. Achieved Mean Absolute Error(MAE) values of 3.8 for BMI, 0.074(in m) for Height (Best yet) & 13.29 (in kg) for Weight.

Automatic face aging in videos using Deep Reinforcement Learning (Ongoing)

Professor: Dr. Satish Chandra (satish.chandra@jiit.ac.in)

- Developing a system to produce aged faces of young individuals in videos in Python language utilizing Keras for Computer Vision and TF Agents for Reinforcement Learning.

*** 2 out of 5 publications are displayed. For more details, please check my Linkedin profile.**

EDUCATION

Sec-62, Noida	Jaypee Institute of Information Technology	July 2016 – June 2020
<ul style="list-style-type: none">Bachelor of Technology in Computer Science and Engineering, CGPA: 8/10, Final 2 years CGPA: 8.7		

SKILLS

- Languages: C++, Python, SQL
- Libraries: OpenCV, Dlib, Keras, Numpy, TensorFlow, Pandas, Matplotlib, Sklearn, Scrapy
- Operating Systems: Ubuntu, Windows

Extra-Curricular

- Teaching Assistant in Data Structures & Algorithms Lab in final year.
- Secured 3/100 and 4/100 ranks in 5km marathons.
- Volunteer Teacher at Light de Literacy & Blood Donor at Noida Charitable Blood Bank
- Improved health by reducing my weight from 97kgs to 64kgs
- Gold Medal for excellence in High School academics for 6 consecutive years.