



# Abhinav Anil

## Data Scientist (Computer Vision)

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github.com/Abhinav-Anil?tab=repositories 🐙

To achieve the goal and expand my horizon by gaining insights and knowledge on various domains like Image Processing, Computer Vision and Data Analytics from the field of Data Science and work on cutting edge technologies to develop real-world applications.

## WORK EXPERIENCE

### Data Scientist (Computer Vision) Senquire Analytics Pvt Ltd

11/2019 - Present

Pune

Senquire is an AI centric, global visioned startup. Its mission is to use the power of AI to simplify our day to day lives.

#### Achievements/Tasks

- As a Data Scientist, I have developed image processing algorithms and processed datasets tailored for individual applications, enhancing the product capabilities
- R&D on various OpenCV and Unsupervised Learning Techniques that are tailor made to solve complex customer application requirements
- Hands on Project Delivery on Embedded Devices - Nvidia Jetson Nano and Xavier NX, with AI Models based on frameworks such as Tensorflow and Keras
- Automate the measurement processes directly through the Image Processing Techniques. Works on input images as well as open source CAD file formats
- Devise & utilize algorithms and ML models on various kinds of data to improve, clean & validate data for efficiency, uniformity and accuracy

### Trainee, Maintenance and Support Indian Oil Corporation Limited

06/2017 - 05/2018

Patna

#### Achievements/Tasks

- Worked as an IT Trainee, at **Pradhan Mantri Ujjwala Yojna Project (PMUY)** and handling Bihar and Jharkhand
- Worked on Problem Troubleshooting associated with Distributor - Customer relationship.
- Part of development team **IOCL Mumbai Branch**, worked on the development of the internal Software for different states of India.

## EDUCATION

### Master of Science in Computer Application Symbiosis Institute of Computer Studies and Research

06/2018 - 06/2020

Pune, 7.39GPA

#### Courses

- Deep Learning
- Machine Learning
- Data Analytics
- Predictive Analytics

## SKILLS

Python

Image Processing

OpenCV

Predictive Analytics

Unsupervised Learning

Data Analytics

Machine Learning

Deep Learning

Nvidia Jetson

PostgreSQL

Linux

## PERSONAL PROJECTS

A Deep Neural Network based approach to segment medical echocardiography PLAX images into 6 main heart structures. (03/2021 - Present)

- It has managed to achieve an intersection-over-union (IOU) accuracy of 89.3% on average (71 test images).

Anomaly Detection on Proprietary Image Dataset using Nvidia Jetson Xavier NX (05/2021 - 06/2021)

- Model trained on a 'hazelnut' dataset of size 800 images. Accuracy in the ballpark of 95%, evaluation criteria based on heatmap and dataframe

Boundingbox and Illusion effect in static background (03/2020 - 05/2020)

- The main achievement is that applying partial segmentation on each frame that could be recorded and visible by our eyes and treat as illusion on the retina.

## ACHIEVEMENTS

Published paper under IEEE for Understanding the need for Machine Learning as a solution for financial analysis of IT industries. (10/2018 - 01/2020)

(<https://ieeexplore.ieee.org/abstract/document/9104170>)

Won 1st Prize in Institute Level Debate Competition (06/2017 - 06/2017)

26th Rank in the National Science Olympiad (06/2013 - 08/2013)

## LANGUAGES

English

Full Professional Proficiency

Hindi

Full Professional Proficiency

## INTERESTS

Research

Writing

Poems

Violin