

# Vaibhav Sharma

Building and deploying Deep Learning based Computer Vision projects for a fast paced healthcare startup, I have applied knowledge in NLP and Speech processing. I make React Native apps to bring ML to mobile devices

## PROFESSIONAL EXPERIENCE

### Advenio Tecnosys, Research Engineer

November 2019 - PRESENT

#### > **Generating Synthetic data for Augmentation using GANs**

> Generating synthetic fundus images for augmenting data to remove class imbalance.

> Integrating the GAN with a training set generation pipeline to build a custom data augmentor suited to the use case.

#### > **Optic Disk detection using Faster-RCNN & Classification**

> Localizing and extracting optic disc from Retina images using Faster-RCNN in Keras and Tensorflow.

> building a pipeline of RCNN+CNN to classify extracted Optic Disc

> Ensembling this framework with the multi disease classifier using a metanet NN and deploying on AWS EC2 using a flask server.

#### > **Multi-Label Disease Classification from Fundus images**

> Built a CNN classifier using Fast-AI for Prototyping and Pytorch for Development and Interpretability

> Deploying the model on AWS Lambda and in browser via ONNX

> Integrating Data pipelines with patient Database using MySQL and AWS SQS

### Wipro Technologies Pvt. Ltd., Project Engineer

August 2019 - November 2019

> Went through C++ training bootcamp for GUI development for Ford vehicle console application development.

## PUBLICATIONS

> Published **DeepCap: A Deep Learning Technique to caption black and white images** in Confluence 2020

## EDUCATION

**Jaypee Institute of Information Technology, Noida,**  
**B.Tech, Computer Science Engineering**

2015 - 2019.

458-E Professor Colony

Yamunanagar, Haryana

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## Core Competencies

Pytorch, OpenCV, Tensorflow, Keras, Dlib, NumPy, MySQL, CuPy, Spacy, PyText, AWS[Sagemaker, S3, EC2 Lambda], Flask, Django, React-Native, Expo, Firebase, Git.

## LANGUAGES

Python, Javascript  
Typescript, C++

## SOCIAL & DEV

Blog & Portfolio:

<https://Vaibhavpandit.space>

Github:

<https://github.com/Vaibhav21pandit>

LinkedIn

<https://linkedin.com/Vaibhavpandit21>

Medium

<https://medium.com/Vaibhavpandit21>

