YASH BAFNA

Seeking opportunities in Data Science

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EXPERIENCE

Senior Analyst

Capgemini India

Sept 2018 – Present Mumbai

- Responsible for development of features for the tool.
- Responsible for updation and maintenace of the project
- Got trained in Azure cloud

Machine learning Intern

NIT Raipur

Jan – March 2017

- Worked in detecting cancerous tumor mass from CT Scan.

PROJECTS

Object classification(Transfer learning)

Mar 2019

- It uses **Deep learning algorithm** - Transfer learning.
- It is trained on Caltech-101 dataset which consists of 24000 samples.

Object classification(CNN model)

Feb 2019

- It uses **Deep learning** CNN architecture - VGG networks.
- It is trained on CIFAR-10 dataset which contains 60000 32x32 colour images in 10 classes,with 6000 images per class.

Handwritten digit classification

Dec 2018

- It uses **Deep learning algorithm**-deep belief networks along with HOG and Zernike moments to classify the digit.
- It is trained on MNIST dataset which consists of 70,000 28 x 28 grayscale images representing the digits 0-9.

Lung cancer detection and classification

Oct 2018

- It detects the lung's cancerous mass from CT scan images and classifies it into malignant and benign
- Used **watershed** algorithm along with **Gaussian SVM** kernel for classification.
- Also **Deep learning algorithm**- Capsule net was used sepeartely for classification.

Hand Gesture Recognition

June 2017

- It detects the motion of hand along with skin segmentation and hence does simple mathematical operations based on gestures.
- Used **Malima et al.** method which uses localisation, pruning of false-alarm images and constructing centroid.

Dog Breed Classifier

May 2017

- It classifies the dog's breed by computing the image.
- It is trained on dataset which contains four breeds of dog.
- Used **random forest** algorithm for the classification.

PUBLICATIONS

Conference Proceedings

- "Automated Boundary Detection of Breast Cancer in Ultrasound Images using Watershed Algorithm". In: *Ambient Communications and Computer Systems. Advances in Intelligent Systems and Computing, vol 696. Springer, Singapore.*

EDUCATION

Bachelor in Technology

National Institute of Technology, Raipur

Aug 2014 – May 2018

8.66 CGPA (Honors)

ACHIEVEMENT

Secured First position
National Science Exhibition, NIT Raipur

1st position for making the best Android Health Application

SKILLS

Python, Java, C#, .NET, MySQL
OpenCV, Machine and Deep learning libraries,
Google Cloud VM, Azure VM

CERTIFICATIONS

PyimageSearch Gurus

Jan – July 2017

Introduction to Computer Vision | Master OpenCV 3 in Python

Oct 2016 – July 2017

Learn MATLAB with Image Processing from scratch!

Oct – Nov 2017