

# Vasudev Sharma

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## EDUCATION

### B.Tech in Computer Science VIT University, Vellore

05/2016 – Present

CGPA: 9.44/10

### Senior Secondary School MVN Aravalli Hills, Faridabad

04/2014 – 05/2016

Percentage: 93%

### High School MVN Aravalli Hills, Faridabad

05/2010 – 06/2015

GPA: 9.8/10

## TECHNICAL SKILLS

### Programming Languages

Python, TensorFlow, OpenCV, Keras, C/C++, Shell Script, HTML, JavaScript, CSS

### Databases

MySQL / SQL, MongoDB

### Computing Environment, Frameworks, Simulators

MATLAB, R-Studio, Hadoop, GIT, Docker, XAMPP

### Operating Systems

Linux, Mac OS X, Windows

## PUBLICATIONS

El Compendex, SCOPUS and DBLP indexed

### A Fuzzy Constraint Based Method for Outlier Detection

Author(s)

Vasudev Sharma, Abhinav Nagpal, B.K. Tripathy

August 2019

International Conference On Intelligent Computing (ICIC2019), China

SpringerLink

SCOPUS indexed

### Visualization of Data Mining Techniques for the Prediction of Breast Cancer with High Accuracy Rates

Author(s)

Vasudev Sharma, Raj Kumar Rajasekaran and Shreya Badhrinarayanan

Jan, 2019

International Journal of Computer Science

## OPEN SOURCE PROJECTS

### Abandoned Object Detection (11/2018 – Present)

- Developing a real-time detection of abandoned objects in crowded areas under the supervision of former DEAN

## EXPERIENCE

### Research Intern - NeuroPoly Lab Université de Montréal

05/2019 – 08/2019

4 months

Montreal, Canada

Achievements/Tasks

- Developed a software AxonDeepSeg - Axon / Myelin segmentation using Deep Learning
- Implemented and integrated UNET model for segmentation on Keras framework for histological data (SEM and TEM)
- Fine tuned model for optimal performance, refactored ADS codebase and performed an exhaustive comparative analysis with state of art methods
- Researched and incorporated dynamic functionality for handling overlapping patch effect on microscopy images

Supervision: Prof. Julien Cohen-Adad – Director of NeuroPoly Lab

### Data Science (remote) Intern Council of Scientific and Industrial Research(CSIR)

01/2019 – 06/2019

6 months

Lucknow, India

Achievements/Tasks

- Worked on Evaluation of Science reporting, patent database analysis, wherein scrapped important reporters worldwide using Selenium and Maltego from LinkedIn, Twitter and report's publications
- Carried out tasks like geospatial visualisation, data analysis of reporters and manually filled missing fields in Science reporting database
- Build USPTO patent database, a US patent office, by web scrapping using BeautifulSoup, collating, data cleaning and preprocessing.

Supervision: Dr. Sukant Khurana –  
Head of Data Science, AI, and Neurophysiology Lab

### Academic Intern National University of Singapore(NUS)

12/2018 – 01/2019

2 months

Singapore

Achievements/Tasks

- Developed a Music Genre Classifier using Deep Learning under guidance of Prof. WANG Wei at NUS.
- Extracted Music features(MFCC's and FBE's) from raw audio files via speech analysis using Librosa package on GTZAN and Million Song Dataset.
- Optimized and implemented various machine learning(SVM, Random Forest) and state of art deep learning techniques(CNN, RNN, LSTM's).
- Performed Spectrogram and time series waveform analysis of different genres.

Supervision: Prof. Wei Wang

## OPEN SOURCE PROJECTS

Opinion Mining: Aspect Based Text Summarizer  
(10/2019 – 12/2018)

- Developed an Aspect based sentiments text-summarizer rating systems on e-commerce using NLP.
- Worked on Text extraction, sentiment Classification, Dynamic and Static Aspect Extractor and Summarization of reviews.

Breast Cancer detection using Artificial Neural Networks  
(06/2018 – 09/2018) [↗](#)

- MATLAB based GUI to predict breast cancer is Malign or Benign with help of feed-forward Neural Network(ANN).
- Used Adaptive filtering, GMM segmentation with Hidden Markov Models with EM(Expectation and Maximization),feature extraction(GLCM),prediction using Artificial Neural Networks on image dataset.

## POSITION OF RESPONSIBILITY

### Member

Cognet.ai [↗](#)

08/2017 – Present

Cognet.ai is a research group in VIT which focuses on areas related to Computer Vision and Deep Learning.

Tasks

- Blog writing, organising events in University.
- Currently working on "Abandoned Object Detection" under Dean, SITE.

Supervision: Dr. Aswani Kumar Cherukuri

### Volunteer

Child Rights and You

06/2016 – Present

Tasks

- NGO for helping out children from poor family background.
- Working towards providing a safe space to grow up for children in India.

## EXPERIENCE

### Intern

Hewlett Packard Enterprise

12/2018 – 01/2019

Singapore

2 months

Achievements/Tasks

- Worked on real-world data-sets using tools like Hadoop, Ambari, MapReduce (for Data Storage).
- Learned and implemented to set up Ambari clusters and applications build on its product Kafka, Hive and Sqoop.

Supervision: Prof. Ravindra Kumar

## ACHIEVEMENTS AND AWARDS

AICTE - INAE Travel Grant (07/2019 – 08/2019)

Awarded a prestigious student travel grant by Government of INDIA to present my paper (outlier detection) at ICIC2019 conference, CHINA

Charpak France Research Lab Scholarship (05/2019 – 08/2019) [↗](#)

Awarded a fellowship by government of France to take a sponsored internship at a research institute in France for up to 3 months. A total of 21 interns were selected from all over India for this prestigious and competitive Scholarship.

Excellent Student Award (12/2018 – 01/2019)

Awarded with the Excellent Student Award at NUS for the project on "Music Genre Classification" among all the Interns.

Udacity PyTorch(Deep Learning) Scholarship by Facebook AI  
(07/2018 – 11/2018)

Among 10,000 aspirants to receive scholarship and to study the how to build deep neural networks using PyTorch

Institute Rank 7 (05/2016 – Present)

Consistency in maintaining institute rank 7 among 2,000 students over the last 3 years at VIT Vellore. Receiving scholarships and awards for the same.

Recipient of VITEEE2016 Scholarship (05/2016 – Present)

Recipient of VITEEE2016 Scholarship among pool of 212,000 applicants

1st rank in National Cyber Olympiad(NCO) at state level.  
(09/2015)

## MOOC'S

Machine Learning by Prof. Andrew Ng

Coursera

TensorFlow for Deep Learning

Stanford University

Deep Learning Specialization by Prof. Andrew Ng

Coursera

Neural Networks for Machine Learning by Prof. Geoffrey Hinton

Coursera

Introduction to Computer Vision

Georgia Institute of Technology

Data Visualisation

Coursera

Image and Video Processing

Duke University, Coursera

Introduction to Data Science

Michigan University, Coursera