

# Laksh Arora

WEB DEVELOPER · DATA SCIENTIST

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## Summary

Laksh Arora is Pythonista at heart and has interests in applications of Machine Learning and Computer Vision. Completed his BCA in Computer Science from IPU. Co-organiser of PyDataDelhi meetups. Previously also gave talk at PyDataDelhi community, CSI and other various small meetups. Also spoke at University level about latest work in Machine Learning and won multiple hackathons. Currently TA at coding blocks where he is teaching Machine Learning and also collaborating with other enthusiasts over the globe doing independent projects.

## Education

### IPU (Indraprastha University)

BACHELORS IN COMPUTER APPLICATION - B.C.A

New Delhi, India

Aug. 2014 - May. 2017

### M.C.L Public School

HIGH SCHOOL

New Delhi, India

May. 2012 - May. 2014

- Won 1st Prize in Project Presentation Competition

## Work Experience

### Coding Blocks

TEACHING ASSISTANT

New Delhi, India

June 2017 - Present

- Teaching Machine Learning and frameworks such as Keras, Tensorflow.
- Discussions about latest Research Paper and Implementation of such papers.
- Mentoring students regarding programming and real world applications of algorithms.

### Codementor

MENTOR

New Delhi, India

December 2016

- Expert Mentor on Codementor for Python, Machine Learning, Data Visualisation and Flask.
- Teaching all over the globe and collaborating with different developers in different countries.

### PeoplePerHour

FREELANCE DATA SCIENCE CONSULTANT

New Delhi, India

August 2016 - Present

- Consulting different startups and individual regarding the structure of Machine Learning Models.
- Collaborating with individuals for data extraction, cleaning and visualisations.

### Data Point

DATA SCRAPER & DATA ANALYST

New Delhi, India

June 2015 - Aug 2015

- Scrapping the information from different websites.
- Analysing and Cleaning the Data.
- Creating reports regarding the data usage.

## Skills

### Programming

Python, C, C++, Javascript, MATLAB, Latex

### Libraries

Keras, Tensorflow, Caffe2, OpenCV, Numpy, Pandas, Seaborn, Matplotlib

### Web

D3JS, Flask, Django, Angular, Reddis, Javascript, CSS, HTML5, LESS, SASS

### Familiar

Unity3D, Apache Spark, Android, Lua

## Talks

### PyDelhi

PRESENTER FOR <INTRO TO MACHINE LEARNING USING KERAS>

New Delhi, India

June 2017

- Introduced Machine Learning concepts such as MLP and CNN.
- Showcasing the concept using code written Keras framework.

## MSI, IPU

New Delhi, India

PRESENTER FOR <EXTENDING OUR MODEL KNOWLEDGE USING TRANSFER LEARNING>

March 2017

- Introduced Transfer Learning concepts and it's usage in real world.
- Using the concept on detecting new breeds of animals using Keras framework.

## CSI Meetup

New Delhi, India

PRESENTER FOR <DATA SCRAPING USING PYTHON>

July 2016

- Gotchas of Scraping, pitfalls and proactive best practices.

## Projects

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### Feature Extraction and Classification of Traffic Signs

KERAS, MACHINE LEARNING, CONVOLUTION, SUPERVISED LEARNING, COMPUTER VISION

- Extracting Inner Representation of Traffic Signs for correct classification.
- German Traffic Signs dataset, have 50,000+ images .

### Facial Expression Recognition

KERAS, OPENCV, MACHINE LEARNING, CONVOLUTION, SUPERVISED LEARNING, COMPUTER VISION

- Categorize each face into 7 categories (0=Angry, 1=Disgust, 2=Fear, 3=Happy, 4=Sad, 5=Surprise, 6=Neutral).
- Facial Expression Dataset contains more than 28,000+ emotion images.

### Real Time Hand Gesture Recognition

COMPUTER VISION, OPENCV, CONVEX HULL ALGORITHM

- The aim of the project was to device a program that is able to detect hands, track them in real time and perform some gesture recognition.
- To perform gesture recognition, Convex Hull Algorithm was used.

### Car Model Detection using Transfer Learning

KERAS, OPENCV, MACHINE LEARNING, CONVOLUTION, SUPERVISED LEARNING, COMPUTER VISION

- Detection of Car Model using Transfer Learning, pre-trained VGG model.
- Stanford Car Dataset was used which have about 150+ classes.

## Program Committees

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2017 **Organizer**, PyData Delhi

New Delhi

2015 **Organizer**, Google Developer Group MSIT Meetups

MSIT

2015 **Organizer**, CSI Coding Competition

New Delhi

## Hackathons

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2017 **Finalist**, Project Mania, Inter College

New Delhi, India

2016 **Finalist**, AngelHack

Jaipur, India

2016 **Finalist**, Hack@NSIT

New Delhi, India

2016 **Runners-up**, NSIT Software Hackathon

New Delhi, India

2016 **Runners-up**, Under25Hack

Banglore, India

2015 **Runners-up**, CoHack

New Delhi, India