

# Laksh Arora

DATA SCIENTIST · MACHINE LEARNING ENGINEER

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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 PyData, CSI and other various small meetups. Also spoke at University level about latest work in Machine Learning and won multiple hackathons. Currently Associate Instructor at Coding Blocks where he is teaching Machine Learning and also collaborating with other enthusiasts over the globe doing independent projects.

## Skills

<b>Programming</b>	Python, C, C++, Javascript, MATLAB, Latex
<b>Libraries</b>	Keras, Tensorflow, PyTorch, OpenCV, NLTK, Numpy, Pandas, Seaborn, Matplotlib
<b>Web</b>	D3JS, Flask, Django, MongoDB, Angular, Reddis, Javascript, CSS, HTML5, LESS, SASS
<b>Familiar</b>	R, Unity3D, Apache Spark, Android, Lua

## Work Experience

### Coding Blocks

ASSOCIATE INSTRUCTOR

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

DATA SCIENCE 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

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.

## Projects

### Facebook Event Analysis and Interested Count Predictor

DATA SCRAPING, DATA VISUALIZATION, PREDICTION MODEL, WEB DEPLOYMENT

Github

Website

- Analysis of 5 categories of Facebook Events: Travel, Food, Music, Art, Education
- Random Forest trained on 1000 events to predict Interested Count.

### Feature Extraction and Classification of Traffic Signs

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

Github

- 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

Github

- 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.

## Talks

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### Amity University

WORKSHOP ON <UNDERSTANDING COMPUTER VISION AND CNN BETTER.>

- Underlying Concept of Computer Vision and CNN's.
- Recent advancements in CV field and where it is heading.

New Delhi, India

August 2017

### PyData

PRESENTER FOR <WHAT IS MACHINE LEARNING?>

- Introduced wide concept of Machine Learning.
- Applications of Random Forest, Neural Networks etc.

New Delhi, India

July 2017

### PyDelhi

PRESENTER FOR <INTRO TO NEURAL NETWORKS USING KERAS>

- Introduced Neural Network concepts such as MLP and CNN.
- Showcasing the concept using code written in Keras framework.

New Delhi, India

June 2017

### MSI, IPU

PRESENTER FOR <EXTENDING OUR MODEL KNOWLEDGE USING TRANSFER LEARNING>

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

New Delhi, India

March 2017

### CSI Meetup

PRESENTER FOR <DATA SCRAPING USING PYTHON>

- Gotchas of Scraping, pitfalls and proactive best practices.

New Delhi, India

July 2016

## Education

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### IPU (Indraprastha University)

BACHELORS IN COMPUTER APPLICATION - B.C.A

New Delhi, India

Aug. 2014 - May. 2017

### M.C.L Public School

HIGH SCHOOL

- Won 1st Prize in Project Presentation Competition

New Delhi, India

May. 2012 - May. 2014

## Program Committees

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- 2017 **Organizer**, PyData Delhi
- 2015 **Organizer**, Google Developer Group MSIT Meetups
- 2015 **Organizer**, CSI Coding Competition

New Delhi

MSIT

New Delhi

## Hackathons

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- 2017 **Finalist**, Project Mania, Inter College
- 2016 **Finalist**, AngelHack
- 2016 **Finalist**, Hack@NSIT
- 2016 **Runners-up**, NSIT Software Hackathon
- 2016 **Runners-up**, Under25Hack
- 2015 **Runners-up**, CoHack

New Delhi, India

Jaipur, India

New Delhi, India

New Delhi, India

Banglore, India

New Delhi, India