Laksh **Arora**

DATA SCIENTIST · MACHINE LEARNING ENGINEER

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Skills

Programming	Python, SQL, Regex, R, C, C++, Javascript
Modules	PostegreSQL, Pandas, Numpy, Matplotlib, MongoDB, Keras, Tensorflow, OpenCV, NLTK, , Seaborn
Web	D3JS, Flask, Angular, CSS, HTML5
Tools	MS Excel, Google Charts, Git, Heroku, AWS, Apache Spark, Docker

Work Experience

Procol Pvt. Ltd.
New Delhi, India

DATA SCIENTIST — *February 2019 - Present*

- Data plumbing, data aggregation, business intelligence.
- Understand KPI's of clients, construct queries, dashboards, graphs, and visualizations useful for higher management.
- Identify problems with Client Success Team, form hypothesis and analyze the problem with the data.
- Built forecast model using XGBoost to predict the intention of a person to bid in the procurement auction.
- ETL data to create financial reports for the clients.
- Developed various automation tools using Python, Excel for optimization of the process as per the business requirements.
- Filter and clean data by reviewing feedback, anomalies and performance indicators to locate and correct data input points.

Consulting
New Delhi, India

DATA SCIENTIST/ WEB DEVELOPER — *August 2017 - Present*

- Machine Learning algorithm implementation in the product.
- Exploration and Visualization of different data such as IOT devices connectivity etc.
- Computer Vision applied to the images for extraction of either text or different shapes.
- Consulting different startups and individual regarding the structure of Machine Learning Models

Codementor
New Delhi, India

DATA SCIENCE MENTOR — *December 2016 - Present*

- Mentor of Python, Machine Learning, Data Visualization, Flask and other skills.
- Teaching all over the globe and collaborating with different developers in different countries.

Coding Blocks
New Delhi, India

ASSOCIATE INSTRUCTOR — *June 2017 - August 2017*

- Teaching Machine Learning and ml frameworks such as Keras, Tensorflow.
- Discussions and implementations of latest Research Paper in the field of Computer Vision, NLP.
- Mentoring students regarding programming and real world applications of algorithms.

Data Point
New Delhi, India

DATA SCRAPER & DATA ANALYST — *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
Github

DATA SCRAPING, DATA VISUALIZATION, PREDICTION MODEL, WEB DEPLOYMENT — *Website*

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

Facebook Event Analysis and Interested Count Predictor
Github

DATA SCRAPING, DATA VISUALIZATION, PREDICTION MODEL, WEB DEPLOYMENT — *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
Github

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

Github

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.

Public Talks

PyCon Nove

Italy

TALK ON <HACKING YOUR WAY INTO MACHINE LEARNING.>

April 2018

- Machine Learning general pipeline towards a problem.
- Live Dataset for implying EDA, Machine Learning Algorithm and Visualizations.

University

India

WORKSHOP

2017-2018

- Convolutional Network and it's latest research at Amity University.
- Machine Learning and how to get started in it at Thapar University.

PyData Delhi

New Delhi, India

PRESENTER FOR <WHAT IS MACHINE LEARNING?>

July 2017

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

PyDelhi

New Delhi, India

PRESENTER FOR <INTRO TO NEURAL NETWORKS USING KERAS>

June 2017

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

Outreach

2018	**Volunteer,** PyCon France Conference	*France*
'17-'19	**Committee Member,** PyData Delhi Conference	*New Delhi*
2015	**Co-Organizer,** Google Developer Group MSIT	*MSIT*
2015	**Organizer,** CSI Coding Competition	*New Delhi*

Education

IPU (Indraprastha University)

New Delhi, India

BACHELORS IN COMPUTER APPLICATION - B.C.A

Aug. 2014 - May. 2017

M.C.L Public School

New Delhi, India

HIGH SCHOOL

May. 2012 - May. 2014

- Won 1st Prize in Project Presentation Competition

Hackathons

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*