

# Nirant Kasliwal

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## SKILLS

### PROGRAMMING

Comfortable:

Python • R

Advanced Learner:

Jupyter Notebooks • PyTorch • Numpy

• Flask • Scikit Learn • Git

Familiar:

C • C++ • TensorFlow • Django • Java •

Julia • Shell •  $\LaTeX$

## EDUCATION

### BITS PILANI

M.Sc. (TECH.) INFORMATION

SYSTEMS

2012 - 2016 | Pilani, Rajasthan

Cum. GPA: 8.1/10

## OUTSIDE WORK

### AWESOME NLP

4000+ STARS

RECOGNISED BY GITHUB.COM AS A

TRUSTWORTHY SOURCE

• Maintainer since Jan 2018, grew

stars from 2k to 4k+

• Did major revisions on classification, summarization tasks

• Led inclusion of language specific tools and datasets

• URL: [github.com/keon/awesome-nlp](https://github.com/keon/awesome-nlp)

## COURSEWORK

### MOOCS

Analytics Edge | MITx

Deep Learning Foundations | Udacity

### BITS PILANI

Machine Learning

Pattern Recognition

Software Engineering

Data Mining

Advanced Data Mining (audited)

## EXPERIENCE

### SOROCO | MACHINE LEARNING ENGINEER

October 2017 – Present | Bengaluru

- Text Classification: Deployed fastText by Facebook company-wide for rapid prototyping of Text Classification tasks with engineer-friendly options for cross validation and hyper-parameter search
- OCR: Contributed to a configurable character synthesizer for data generation; adopted **Focal Loss** from RetinaNet for Classification tasks for **4% absolute accuracy improvement**

### SAMSUNG RESEARCH & DEVELOPMENT | SOFTWARE ENGINEER (RESEARCH)

August 2016 – September 2017 | Bengaluru

- Prototyped algorithms using R which leverage and assess driver behaviour with reference to safety, deployed in C
- Sub-components: Event detection and classification algorithms running on Internet enabled IoT device inside car

### BELONG.CO | DATA SCIENCE INTERN

July 2015 – Dec 2015 | Bengaluru

- Designed, built and deployed a machine learning module in Python to predict whether a person is willing to change job to a particular organisation
- Improved the model prediction accuracy by 22% and precision by 25% by moving to Random Forest classification and adding more features, scaled by 10X to 1M records

## PUBLICATION

Published in Machine Intelligence and Signal Processing by Springer

Improved the accuracy of character recognition in natural scene images on the standard Chars74k dataset

- Proposed a classification technique achieving 72% accuracy (state-of-the-art in 2013) for classifying characters
- Built a basic image processing operations and ensemble machine learning pipeline

## PROJECTS

### TEXT SUMMARIZATION USING PROBABILISTIC SEMANTIC ANALYSIS | PYTHON

- Summarization using Important Sentence Extraction with importance score assigned using statistical measures.

### AIR CANVAS GESTURE, VOICE RECOGNITION FOR AUTISTIC CHILDREN | MICROSOFT KINECT | APRIL 2014

- Built a gesture and speech command controlled app using Kinect for kids which allowed them to draw and paint on screen using their hands
- Stood 2nd from over 24 finished projects at Microsoft code.fun.do hackathon