Nirant Kasliwal

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SKILLS

PROGRAMMING

Comfortable:
Python • R
Advanced Learner:
Jupyter Notebooks • Flask & Django • Scikit Learn • C • C++ • Git
Familiar:
TensorFlow • Adobe Photoshop • Java • Julia • Shell • LaTeX

EDUCATION

BITS PILANI

M.Sc. (Tech.) Information Systems
2012 - 2016 | Pilani, Rajasthan
Cum. GPA: 8.1/10

LINKS

Github: **nirantk**
LinkedIn: **nirant**

COURSES

MOOCS

Analytics Edge | MITx
Introduction to Algorithms, Stanford | Coursera
Deep Learning Foundations | Udacity

BITS PILANI

Machine Learning
Pattern Recognition
Software Engineering
Software Testing
Data Mining
Advanced Data Mining (audited)

EXPERIENCE

SOROCO | Platform Engineer

October 2017 – Present | Bengaluru

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/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 product in Python to predict whether a person is willing to change job to a particular organisation
- Built using the Python-Anaconda distribution (scikit learn, numpy stack), deployed using Flask (MVC Web Framework) and SQLAlchemy (ORM)
- 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 (then state-of-the-art) for classifying characters
- Built a basic image processing operations and ensemble machine learning pipeline

PROJECTS

FALL DETECTION Depth Sensing for Accident Response | Microsoft Kinect | March 2014

- Built a PoC for an IoT system which can detect if a human fall for use in elderly care, hospitals based on Philips Lifeline
- Built using Microsoft Kinect SDK for human detection, joint detection change measurement, and depth sensing
- Won the APOGEE Innovation Challenge by Schneider Electric

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