Nirant Kasliwal

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SKILLS

PROGRAMMING

Comfortable:
Python • R
Advanced Learner:
Jupyter Notebooks • Flask & Django • Scikit Learn • C • Git
Familiar:
NoSQL (MongoDB) • SQL (MySQL, Postgres) • Java • TensorFlow • Julia • Shell • LaTeX

EDUCATION

BITS PILANI

MSc. (Tech.) Information Systems
2012 - 2016 | Pilani, RJ
Cum. GPA: 8.1/10

LINKS

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

COURSES

MOOC

Analytics Edge | MITx
Introduction to Algorithms, Stanford | Coursera

BITS PILANI

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

RECENT PROJECTS

SALES PREDICTION

And Object Matching in Shelf Images | Python
Finalist in the (Global) AB InBev Growth Analytics Hackathon

EXPERIENCE

SAMSUNG RESEARCH INSTITUTE - BANGALORE |

August 2016 – Present | Bengaluru, KA

- Working with Motion Sensor data stream for event classification
- On-device Machine Learning for an Internet of Things device in Cars (pending commercial launch)

BELONG.CO | Machine Learning

July 2015 – Dec 2015 | Bengaluru, KA

- 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 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
- Helped scale the experimental and production system by 10X from 0.1M records to 1M records by reducing the I/O bottleneck

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 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.

FALL DETECTION Depth Sensing for Accident Response | Microsoft Kinect

- 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

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