

SIDDHARTHA THOTA

Machine learning engineer, passionate programmer
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EDUCATION

University of Toronto, Canada

Sept 2017 - Dec 2018

MSc. in Applied Computing, GPA 3.925/4

Research projects:

- Pose-guided CycleGAN for Image to Image translation
- 8-month Machine Learning Engineer intern at ROSS Intelligence
- Sidewalk terrain estimation by clustering sensor data to assist wheelchair users
- Scheduling algorithms for applications on heterogenous multi-tier clouds

National Institute of Technology Karnataka, India

July 2010 - March 2014

BTech. in Information Technology, GPA 8.47/10

Research projects:

- Identifying ragas (musical modes in Indian classical music) using HMMs

EXPERIENCE

ROSS Intelligence Inc.

May 2018 - Dec 2018

Machine Intelligence Engineer Intern

Toronto, ON

- Research project: Legal passage entailment for question answering - an attention-based LSTM model to predict entailment or contradiction between a legal question and passages from a case text.
- Lead and contributed to several full-stack components of ROSS service.
- Built testing strategies, frameworks and data collection strategy for several ML problems.
- Conducted user testing with lawyers from early stages of the product until delivery.
- Worked as a full-time engineer, at par with other engineers at ROSS.

Adobe Systems Inc.

June 2014 - Aug 2017

Software Developer

Bangalore, India

- Designed and built a multi-cloud service management framework on Azure and AWS.
- Developed a Spark MLLib-based framework to generalize ML algorithms.
- Built data pipelines, configuration services and scheduling interfaces for setting up model training.
- Optimized customer spends using a customized analytical marketing mix model solver.
- Built massive ETL pipelines, provided seasonality and multiple campaign support to customers.

TECHNICAL STRENGTHS

Computer Languages

Python, JS (React, etc), Scala, Java, C/C++, R, Octave, MATLAB

ML & Data Science

PyTorch, scikit-learn, Spark-MLLib, Pandas, TensorFlow

Distributed Computing

Spark, Docker, AWS/Azure, Mesos/Marathon etc.

Tools

Vim, git, linux, shell

AWARDS AND PUBLICATIONS

- Best poster award, CMU Winter School, Bangalore, 2012: Raga detection in Indian Classical Music using HMMs
- Conference paper: Scale independent raga identification using chromagram patterns and swara based features (IEEE Explore) - IEEE, ICMEW, 2013