# Siddhartha Thota

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## PROFESSIONAL PROFILE

A graduate student, focused around machine learning. Strong experience in rapid prototyping and deployment of intelligent services. Passionate about solving real-world, impactful problems using data and intelligent algorithms.

## EDUCATION

**MSc in Applied Computing** September 2017 – December 2018
*University of Toronto, Department of Computer Science*
Courses (ongoing):

- Introduction to Machine Learning
- Machine Learning in Computer Vision
- Topics in Ubiquitous Computing
- Current Algorithms and Techniques in Machine Learning
- Algorithms for Collective Decision Making
- Topics in Cloud, Mobile and Pervasive Computing

Research projects (ongoing):

- Scheduling algorithms for tasks in a multi-tier cloud architecture.
- Assistive technology for wheelchair users by clustering inertial sensors from mobile phone users.

**BTech in Information Technology** July 2010 – March 2014
*National Institute of Technology Karnataka, Department of Information Technology*
Research project: Identifying ragas (musical modes in Indian classical music) from instrumental music using Hidden Markov Models and chromagram features.

## EXPERIENCE

**Adobe Systems India** June 2014 – July 2017
*Member of Technical Staff - II*

- Designed and built a multi-cloud service management framework on Azure and AWS using docker, Mesos, Marathon and Adobe's bespoke frameworks.
- Developed a framework based on SparkML pipelines to generalize algorithms.
- Built data pipelines, configuration services and scheduling interfaces for setting up interactive or batch training.
- Collaborated and delivered solutions to data scientists and algorithm engineers, deployed in production.

*Member of Technical Staff*

- Optimized customer spends and attribute earnings by building a customized analytical marketing mix model solver.
- Built and supported massive data pipelines for ingesting, transforming and loading customer data into the service.
- Built support for seasonality, environmental factors and multiple concurrent campaign support into the product.
- Gained extensive experience working in a highly agile, research-based and collaborative project.

## TECHNICAL SKILLS

**Programming Languages:** Python, Javascript, Java, Scala, C/C++, Octave, MATLAB, PHP, HTML/CSS
**ML Packages:** scikit-learn, Spark-MLLib, TensorFlow
**Distributed Computing:** Hadoop, Spark, Docker, AWS/Azure environments, Mesos, Marathon, Airflow
**Toolsets:** Git, Linux, shell scripting

## AWARDS AND PUBLICATIONS

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