# SIDDHARTHA THOTA

Machine learning engineer, passionate programmer

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## EDUCATION

**University of Toronto, Canada** *Sept 2017 - Dec 2018*

MSc. in Applied Computing, Current GPA 3.85

Courses:

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|---|---|
| Machine Learning and Data Mining | Topics in Cloud, Mobile and Pervasive Computing |
| Machine Learning in Computer Vision | Topics in Ubiquitous Comptuing: Assistive Technology |

Research projects:

- 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

Research project:

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

## EXPERIENCE

**Adobe India, Bangalore** *June 2014 - Aug 2017*

*Member of Technical Staff - II*

· 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.

· Collaborated with data scientists and algorithm engineers, delivered deployments in production.

*Member of Technical Staff*

· Optimized customer spends using a customized analytical marketing mix model solver.

· Built massive ETL pipelines, provided seasonality and multiple campaign support to customers.

· Gained experience of working in a highly agile, self-motivated research project.

## TECHNICAL STRENGTHS

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|---|---|
| **Computer Languages** | Python, JS, Java, Scala, C/C++, R, Octave, MATLAB, HTML/CSS |
| **ML & Data Science** | 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