

# Siddha Ganju

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## Education

**CARNEGIE MELLON UNIVERSITY (CMU), SCHOOL OF COMPUTER SCIENCE**

*Master of Computational Data Science*

Major: Analytics

**Pittsburgh, PA**

*December 2016 (Expected)*

**NATIONAL INSTITUTE OF TECHNOLOGY (NITH)**

*Bachelor of Technology, GPA – 8.08 on 10*

Major: Computer Science and Engineering

**Hamirpur, India**

*May 2015*

## Areas of Interest

Multi-Modal Deep Learning, Machine Learning, Natural Language Processing, Computer Vision, Data Science

## Experience

**CARNEGIE MELLON UNIVERSITY**

*Research Assistant, Mentors: Olga Russakovsky, Abhinav Gupta*

Ongoing research on test time supervision offered by visual question answering as opposed to standard computer vision paradigms like image segmentation and object detection.

**Pittsburgh, PA**

*May 2016 - Present*

**CERN**

*Openlab Intern, Mentors: Valentin Kuznetsov, Tony Wildish, Manuel Martin Marquez, Antonio Romero Marin*

**Geneva, Switzerland**

*June 2015 - August 2015*

Used Apache Spark to streamline different predictive prototypes by gathering information from CMS, ran predictive models and proposed datasets which will become popular over time. Evaluated quality of individual models, performed component analysis and selected best predictive model for new set of data.

## Publication

Ganju, Siddha *et al.* (2015). Evaluation of Apache Spark as an Analytics framework for CERN's Big Data Analytics.

DOI: [10.5281/zenodo.3186](https://doi.org/10.5281/zenodo.3186)

## Skills

Languages

Lua, Python, JAVA, C, R, Octave, C++, L<sup>A</sup>T<sub>E</sub>X

Libraries

Torch, TensorFlow, Caffe, Theano, scikit-learn, pandas, NLTK, Weka

Frameworks

Spark, Hadoop, Amazon Web Services, .NET, Azure

## Select Projects

**OPEN ADVANCEMENT OF QUESTION ANSWERING CONSORTIUM**

*Capstone Project, Mentors: Eric Nyberg, Matthias Grabmiar*

Pursuing active research on Multi-modal QA systems based on an ensemble of Deep Learning and Rule-based systems.

**CMU**

*Jan 2016-Present*

**AUTOMATED PIPELINE FOR MACHINE LEARNING PROBLEMS**

*Summer Internship, Mentor: Anirudh Koul, Data Scientist, Microsoft*

Created a Python command line toolkit using scikit, numpy, pandas and matplotlib libraries to solve machine learning problems automatically. Imputation and hyper parameteric optimization placed my model among the top 10% of the Titanic kaggle.com challenge (Rank 198/2035 in July 2014). Experimented with large data sets and deployed on Hadoop cluster over AWS. Presented at [Grace Hopper 2015](#)

**NITH**

*May 2014-August 2014*

## Achievements

2016 Speaker, 'Atom Smashing using Machine Learning at CERN', [Strata+Hadoop World](#), San Jose, USA

2015 Winner, Best Innovative Outreach, [CERN WebFest](#), Geneva, Switzerland

2014 Winner, [Grace Hopper Conference Hackathon](#), Bangalore, India

2014 Finalist, [New York University International Hackathon](#), Abu Dhabi

2013 Winner, [India Scholarship Award](#), Institution of Engineering and Technology (IET) *Out of 5000 participants*, Delhi, India

## Honors

2016 Panelist, [IBM+Apache Spark Maker Community Event](#), San Francisco, USA

2015 [Grace Hopper Conference Scholar](#), Texas, USA

2013 Student Women Representative, Community Volunteers Conference, IET, Sri Lanka