whoami

I am a Master of **Computational Data Science** student at **Carnegie Mellon University**. My main research interests are Multimodal Deep Learning and Multimodal Question Answering. Broadly my work is at the intersection of Deep Learning, Machine Learning, Natural Language Processing, Computer Vision, Artificial Intelligence, Multi-modal learning and Data Science (including Statistics).

I did my bachelors from National Institute of Technology, Hamirpur, India.

Select Projects

Atom Smashing using Machine Learning at CERN (CERN Openlab project)

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: **Siddha Ganju**, Valentin Kuznetsov, Tony Wildish, Manuel Martin Marquez, Antonio Romero Marin (2015). Evaluation of Apache Spark as an Analytics framework for CERN's Big Data Analytics. Zenodo

Presented at Strata+Hadoop World 2016, San Jose, USA

O'Reilly Blog post I about my talk, also featured on their data newsletter.

O'Reilly Blog post II about my talk, also featured on their data newsletter.

See here for news coverage and Twitter feed.

Automated Pipeline for Machine Learning Problems

Created a Python command line toolkit using scikit-learn, 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 out of 2035 in July 2014). Experimented with large data sets and deployed on Hadoop cluster over AWS.

Mentor: Anirudh Koul, Data Scientist, Microsoft

Presented at Grace Hopper 2015

In progress

- Visual Question Answering
- Open Advancement of Question Answering Consortium
  - Pursuing active research on Multi-modal QA systems based on an ensemble of Deep Learning and Rule-based systems.

Conferences

Panelist, IBM+Apache Spark Maker Community Event, San Francisco, USA, 2016. News coverage and Twitter feed

Speaker, Strata + Hadoop World, San Jose, 2016, I gave a talk about my research at CERN, the European Organization for Nuclear Research.

Invited to the [Open Leadership Cohort](#), Working Open Workshop, Mozilla Science Lab, Berlin, Germany, 2016

Poster Presentation, [Grace Hopper Conference, Texas, 2015](#). [News coverage](#)

Talk, Mozfest, London, 2015, by Team [OpenCosmics](#). - [Git announcement by Mozilla](#)

Achievements

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

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

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

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

[Winner](#), **India Scholarship Award, Institution of Engineering and Technology (IET)**, Delhi, India, 2013, [News Coverage](#)

Honors

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

Contact

You can contact me on :

- Email: Its great having a unique name!
    - You can email me on firstnamelastname[at]emailserviceprovider, gmail or yahoo.
    - Or, use my andrew id, sganju1 for [andrew.cmu.edu](#) OR [cs.cmu.edu](#).
- Twitter Handle: [SiddhaGanju](#)
- IRC nick : sidgan
- GPG Fingerprint: FCFC EF8E 95DE 42EC DE83 FA8C 6D18 0E5A DD42 E8B4
- Send me a postcard!

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Curriculum Vitae

My CV is available [here](#) or