Siddha Ganju

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EDUCATION

2016	CARNEGIE MELLON UNIVERSITY, School of Computer Science
2010	, *
	Master Computational Data Science
	GPA 3.55 / 4.0
2015	NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR, (NITH) INDIA
	Bachelor of Technology in Computer Science & Engineering
	CGPA: 8.08/10, RANK: 1/103
	Awarded Ambuja Cement Scholarship
2011	DAV Public School, New Shimla, India
	Scored 91.8%, Class XII, Central Board of Secondary Education, Delhi, India
	Rank: 1st in school, Top 1% in Himachal Pradesh state
	Awarded Amar Ujala Pratibha Samman for First rank

Interests

Data Science, Deep Learning, Machine Learning, Natural Language Processing, Information Retrieval, Artificial Intelligence, Data Visualization, Computer Vision, Multi-modal learning

Honors

2016	Panelist, IBM+Apache Spark Maker Community Event, San Francisco, USA
2016	Speaker, Atom Smashing using Machine Learning at CERN Strata+Hadoop World,
	San Jose, USA
2016	Member, Open Leadership Cohort, Mozilla Science Lab
2015	OpenCosmics session, Open Research Accelerator at MozFest, London
2015	Grace Hopper Conference Scholar, Texas, USA
2015	Winner, Best Innovative Outreach, CERN WebFest
2015	Firefox Student Ambassador, NITH
2014	Winner, Grace Hopper Conference Hackathon, Bangalore, India
2014	Finalist, New York University International Hackathon, Abu Dhabi
2014	Scored grade 'A' under Martin Stoelen, ShanghAI Lectures. Developed solution for SWISS
	Robots with Adaptive Morphology
2014	International Summer School on Machine Learning Algorithms & Data Analytics, Thapar
	University, Patiala, India
2013	Winner, India Scholarship Award, Institution of Engineering and Technology (IET)
	Out of 5000 participants
2013	Student Women Representative, Community Volunteers Conference, IET, Sri Lanka
2013	National Finalist, Nokia Do Good Hackathon, India

SKILLS

Languages	Python, C, Octave, R, C++, JAVA, IATEX
Libraries	scikit-learn, pandas, NLTK, Weka, Theano, Caffe, Torch, PyLearn2, PyML, Mahout, Mallet
Frameworks	Hadoop, .NET, Spark, Azure, Amazon Web Services

- 2016 | Visual Question Answering. Mentors: Prof. Abhinav Gupta, Olga Russakovsky, CMU
 - Ongoing summer research internship on visual question answering
- 2016 Intelligent and Proactive Cognitive Information Agent. Mentor: Prof. Eric Nyberg, CMU
 - An intelligent conversation agent that proactively engages in cognitive exploration, consultation and reflection to gain knowledge using Memory Neural Networks
- 2015 | Qualitative Evaluation of Word2Vec for Recommendations Mentor: Prof. William Cohen, CMU
 - Used Word2Vec to analyze movie reviews and gain insight into the emotions that led to a movie being rated as 5 or 1. Helps to answer questions as 'What's a good romantic movie?'.
- Evaluation of Apache Spark as Analytics framework for CERN's Big Data Analytics infrastructure, CERN Openlab Intern, Mentor: Valentin Kuznetsov, CMS

 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. Presented at Strata Hadoop+World, San Jose, 2016
- 2014 Automated Pipeline for Machine Learning Problems 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. Using 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

- 2014 | Audio Recognition using Deep Learning
 - Recognizes sounds in the vicinity of a smart phone using convolutional neural networks (CNN) in Theano and displays it textually on its screen. Built to help the hearing impaired.
- 2014 | Twitter Text Normalizer
 - Normalizing noisy tweets to their intended form by correcting abbreviations and misspelled words. Best n-gram for a given context was identified based on precomputed clustering of n-grams around their neighborhood. Clustering performed on Hadoop cluster over Amazon Web Services.
- 2014 Voice activated Factoid Question Answering System

 Question answering pipeline that accepts fact based questions by voice and replies back by retrieving answer from unstructured Wikipedia text corpus.
- 2014 | Local Search Indexer
 - Voice activated Factoid Question Answering System Built a smart crawler \mathcal{E} search indexer for information retrieval using Lucene. Identifies duplicate content, avoids crawling loops and spam sites.
- 2014 | Who Said it
 - Predicts the most likely speaker given an input text, with language models trained using transcripts from politicians during elections. Uses Python's Natural Language Toolkit, libsvm, scikit-learn.
- 2014 Kaam Hai. Grace Hopper Conference Hackathon
 Web app connecting low skilled workers with potential employers.