












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EDUCATION	Columbia University <i>M.S. in Computer Science, concentration in Machine Learning, GPA: 3.925</i>	New York, NY Aug, 2016 – Dec, 2017
	Indian Institute of Technology, Delhi <i>Integrated M.Tech. in Mathematics and Computing, GPA: 8.25</i>	New Delhi, India July, 2009 – July, 2014
PROFESSIONAL EXPERIENCE	Databricks, Inc. <i>Core Machine Learning, Software Engineer</i> <ul style="list-style-type: none">Designed and developed  a framework to enable distributed deep learning using Apache SparkTuned performance and fixed bugs in  Spark MLlib and  Spark Deep Learning PipelinesBenchmarked performance of various packages and included them in  machine learning runtime	San Francisco, CA Feb, 2018 – Present
	Tesla Motors <i>Fleet Analytics, Data Platform Engineer Intern</i> <ul style="list-style-type: none">Introduced aggregates on a distributed store for Model 3 firmware logs to enhance query timeBuilt a framework to define experiments on distributed systems to allow service level toolingIdentified major use cases and added optimisations in Hbase coprocessor and query web service	Palo Alto, CA May, 2017 – Aug, 2017
	AlphaGrep Securities <i>Trading Systems, Senior Analyst</i> <ul style="list-style-type: none">Developed a latency-sensitive trade execution algorithms for mid-frequency algorithmic tradingCreated a live market data server for broadcasting data to multiple servers over TCP in C++Built an integrator to listen to live and query historical market data servers for a charting tool	Mumbai, India Jan, 2016 – July, 2016
	Deutsche Bank CIB Centre <i>Equity Trading Quantitative Analyst</i> <ul style="list-style-type: none">Researched on best executions on dark pools and behavior of order routing algorithmsPlayed a key role in building a global datamart to house and analyze transactional data in q/kdb+	Mumbai, India June, 2014 – Dec, 2015
PROJECT WORK	 Detection of foodborne disease outbreaks using word vectors and convolutional neural layers 2017  Wrote full-featured C++ logger using template metaprogramming to optimize run time 2017  Studied chord vectors and applied them for the task of music classification on Midi files 2017  Implemented artistic style transfer between images using deep CNN in Theano 2016  Automatic speech generator using n-grams based on language models 2014  Implemented an algorithm to solve Fuzzy Linear Programming problem in Matlab 2013  Built a Sokoban Solver using bi-directional search, deadlocks detection and Zobrist hashing 2011	
PUBLICATION	Yogesh Garg and Niladri Chatterjee. Sentiment Analysis of Twitter Feeds. <i>Third International Conference on Big Data Analytics (BDA) 2014</i> , LNCS, volume 8883, pp 33–52. Springer, 2014.	
COURSES	Deep Learning, Advanced Machine Learning, Advanced Algorithms, Artificial Intelligence, Design in C++, Advanced Databases, Theory of Automata, Computer Networks, Pragmatics of Programming Languages, Statistical Methods and Algorithms, Probability Theory, Optimization Methods, Combinatorics, Number Theory, Linear Algebra, Discrete Mathematics	
TECHNICAL SKILLS	C++, Python, Java, q/kdb+ Spark, Keras, Tensorflow, Theano, Git, Linux	
POSITIONS OF RESPONSIBILITY	Teaching assistant for Deep Learning and Data Structures in C/C++ at Columbia 2016-17 Teaching assistant for Statistics, Probability and Optimization courses at IIT Delhi 2013–14 Worked with coordinator to organize Regional Mathematical Olympiad , Delhi region 2010 Organized a concert with international artists, crowd of 5K+, coverage in Metal Hammer 2012	