Aaditya Prakash (Adi) iamaaditya.github.io, aprakash@brandeis.edu Blog **ふ**, Github **♡**, LinkedIn **in**, Twitter **У**

RESEARCH	Current: Memory Networks for transfer learning, Applications of GANs Past: Paraphrase Generation 2, Applications of Memory Networks in NLP 2 Semantic Image Compression using CNN2, Visual Question Answering 2 Computational Fact Checking with Retrospection 2	Advisor: Sadid Hasan Advisor: James Storer Advisor: Liuba Shrira
EDUCATION	PhD, Computer Science, Brandeis University. Advisor: Prof. James Storer	expected 2018
	MA, Computer Science, Brandeis University. Courses: Algorithms, Distributed Systems, Statistical approaches to NLP Computational Semantics, Computational Neuroscience, Information Retrieval	May 2015 GPA = $4.0/4.0$
	BS, Biomedical Engineering, Bharath University, Chennai, India <i>Courses</i> : Calculus(I, II), Complex Analysis, Numerical Methods, Digital Signal Processing Biostatistics, Medical Physics, Medical Imaging Lab, Modeling of Physiological Systems	2004-2008 GPA = 9.36/10 Rank = 1/71
	Completed 24 MOOC courses from Coursera, Udacity, edX, Harvard Business School Machine Learning (Ng), Game Theory, Algorithms, Neural Networks (Hinton), AI (Abbeel)	Certificates &
COMPUTING SKILLS	Languages:C, Python, C++, CUDA, MatlabDeep Learning:TensorFlow, Keras, Theano, TorchResearch Tools:iPython, SciPy, NumPy, NLTK, OpenCV, Git, LATEXBig Data Tools:Hadoop, MapReduce, MongoDB, Mahout, SparkCode Samples:VQA [Keras] ☑, Multi-structure ROI [Tensorflow] ☑, Fallacy Detector [Hamana]	askell] 대
EXPERIENCE	Intern, Qualcomm Research	Summer 2017
	 Explored model parallelism for convolutional neural networks Architecture learning for reduced model complexity 	
	• Deep Learning Developer (Contract), Spin Master™, Canada	Oct-Dec 2016
	 Designed CNN models for fine grained classification of various toys Developed Android app for classification/detection in real-time 	
	• Research Scientist (Part-time), AI Labs, Philips Research, Cambridge, MA	2016 - 2017
	Research Intern, AI Labs, Philips Research, Cambridge, MA	Summer 2016
	 Explored applications of LSTM in sequence to sequence learning Developed efficient representation of memory state for Memory Networks 	
	 Teaching Assistant, Brandeis University Mobile Application Development Introduction to Big Data Analysis Introduction to Algorithms Data Structures Fundamentals of Artificial Intelligence Scientific Data Processing in MATLAB Theory of Computation Data Compression & Multimedia 	2013-current

- Researched various new techniques in data analysis on Hadoop and Spark framework.
- Designed assignments and quizzes for a graduate level course.
- Independent Algorithmic Trading

2010-2012

- Statistical Arbitrage trades on co-integrated pairs.
- Designed and formulated low latency strategies on butterfly spread options
- Designed, developed and coded several algorithmic formulas on a contract basis
- Senior Systems Engineer, Infosys Limited 2, Pune, India

2009-2013

- Developed new algorithm to visualize large unstructured datasets
- Implemented various Machine Learning algorithms on MapReduce and CUDA
- Analyzed various fault measures in distributed optimization problems
- Debug and support of Banking Software implemented across major banks.
- Independent Tutoring, Bharath University

2007-2009

- Courses taught: C, C++, Java, Maths [I, II, III, IV], Computer Architecture.
- Taught more than 150 students, batch size ranging from 2 to 15

AWARDS

- Outstanding Teaching Fellow 2017, Brandeis University
- · Advisory board member, OneQube
- Honorable spotlight award, Visual Question Answering Challenge, CVPR 2016 ♂
- Best paper award at International Conference on Perspective of Computer Confluence, Pune 2012
- Gold Medal for being university topper, Bharath University, Chennai 2008

PUBLICATIONS

- PDFC Prakash, Aaditya, et al. Semantic Perceptual Image Compression using Deep Convolution Networks. IEEE DCC (2017).
- PDFC Prakash, Aaditya, et al. Condensed Memory Networks for Clinical Diagnostic Inferencing. AAAI (2017).
- PDFC Prakash, Aaditya, et al. Neural Paraphrase Generation with Stacked Residual LSTM Networks. COLING (2016).
- PDFC Prakash, A. & Storer, J, Highway Networks for Visual Question Answering, CVPR Workshop (VQA) (2016).
- PDF^{*} Prakash, A. Reconstructing Self Organizing Maps as Spider Graphs for better visual interpretation of large unstructured datasets. *Infosys Lab Briefings*, Vol 11.
 INFY (2013)
- PDFC Prakash, A. Measures of Fault Tolerance in Distributed Simulated Annealing. Proceedings of International Conference on Perspective of Computer Confluence with Sciences Vol 1 pp111-114.
 PICPC (2012)
- PDFC Prakash, A., & Jha, R. K. New Interface Protocol to Connect Multiple Bank Networks from a Single Outlet. *International Journal of Computer Applications*, NY, USA, Vol 55 ppi-9. IJCA (2012)