

Deependra Singh

deepends@seas.upenn.edu | [deependra230.github.io](https://github.com/deependra230) | 267.678.8607

EDUCATION	University of Pennsylvania Ph.D. in Computer & Information Science (GPA: 4.0/4.0)	Philadelphia, PA Aug 2017 – Present
	Indian Institute of Technology Delhi B.Tech. in Computer Science & Engineering	New Delhi, India Jul 2010 – May 2014
SELECTED COURSEWORK	University of Pennsylvania <ul style="list-style-type: none">• MATH-602: graduate algebra; MATH-508: advanced analysis• CIS-511: theory of computation; CIS-502: analysis of algorithms	
PUBLICATIONS	<ul style="list-style-type: none">• Deependra Singh, Vinay Deolalikar: “Automating Relevance Banding in e-Commerce Search using Click Model”. Workshop on Advances in High Dimensional Big data, IEEE Big data 2018.• Neeraj Pradhan, Vinay Deolalikar, Deependra Singh: “Islands of Interest: Mining Concentrations of User Search Intent over e-Commerce Product Categories”. Workshop on Big Social Media Data Management and Analysis, IEEE Big Data 2018.• Vinay Deolalikar, Deependra Singh: “How Informative are the Concept Associations Discovered by a Document Cluster?”. [Preprint available]• Vinay Deolalikar, Deependra Singh: “Can Econometrics Tell Us Which High Dimensional Text Clusters have Short Signatures?”. [Preprint available]• Anupama Jha, Joseph K. Aicher, Deependra Singh, Yoseph Barash: “Interpretation of Deep Learning Models in Genomics: Splicing Codes as a Case Study”. [In preparation]	
WORK EXPERIENCE	Groupon Data Scientist, <i>Search & Data Mining</i> Responsible for enhancing and integrating query-category Click Model into Groupon search engine, effectively moving search relevance banding from manual to machine learnt, and registering millions of dollars of revenue increase.	Palo Alto, CA Oct 2015 – June 2017
	Groupon Data Scientist, <i>Data Science</i> Involved in building machine learnt models for demand forecasting, and designing user behavior studies using statistical methods to identify actionable business insights for several markets.	Chennai, India Jun 2014 – Sep 2015
AWARDS	<ul style="list-style-type: none">• Ph.D. fellowship by the Department of CIS, University of Pennsylvania. [2017–Present]• Merit-cum-Means scholarship by the Ministry of HRD, Govt. of India. [2010-2014]	
SERVICE	<ul style="list-style-type: none">• Member of the program committee for the application track of DSAA 2017. [2017]• Volunteered to teach mathematics to underprivileged high-school students. [2014]	