BARUCH TABANPOUR

blog.tabanpour.info/

WORK EXPERIENCE

Machine Learning Engineer – Squarespace

Feb 2017-Present

Data Scientist - OnDeck

July 2015-Jan 2017

- Developed loss forecasting and time-to-default models based on payment and behavioral customer data.
- Built fraud model (saving ~750k dollars per quarter) and developed unit tested model code running in production.
- Pioneered testing framework for customer communications. Maintaining email, call, letter, and reporting scripts and ETLs, impacting thousands of customers daily.
 - Helped standardize and uphold data and model validation standards, while productionizing model code.
 - Server admin for modeling on AWS.

Developer - Columbia University

May-Aug 2014

- Led the development of an educational Django web application to facilitate Peer Instruction.
- The app was used in a physics course offered at Columbia during Fall 2014.

EDUCATION

Columbia University

May 2015

MS Applied Physics and Applied Mathematics

GPA: 3.87 / 4.00

The City College of New York, Macaulay Honors College

February 2014

Bachelor of Engineering (Electrical Engineering), Minor in Physics

GPA: 3.96 / 4.00, Summa Cum Laude

TECHNICAL SKILLS

Daily Work: Python/Flask, R, Postgres, MongoDB, Linux/Unix, AWS

• Familiar With: Theano, Vagrant, Docker, JavaScript/jQuery, HTML/CSS, MATLAB, Java

RESEARCH PROJECTS

Research Assistant – Columbia University

June-Aug 2015

• Experimenting with deep auto-encoders for rotation invariant image representations with Prof. Tony Jebara.

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Web Developer – City Trek Senior Design		Feb-Dec 2013
Research Assistant - CUNY Laboratory for Nano and Micro	Photonics	June-Oct 2013
Summer Research Fellow - National Institute of Standards in	n Technology, Boulder, CO	May-Aug 2012
Independent Study - CUNY Center for Advanced Technolog	\mathbf{y}	Dec-May 2012
Research Intern - NASA Goddard Institute of Space Studies	, NYC	May-Aug 2010

PERSONAL PROJECTS

climatechangebot – m.me/climatechangebot, the first ever climate change chat bot!

sinkhorn-knopp - github.com/btaba/sinkhorn knopp

Intro. to Reinforcement Learning - github.com/btaba/intro-to-rl

AFFILIATIONS & AWARDS

Co-organizer, Data Science Hackathon, March 2015 - datasciencehackathon.info

Secretary and Treasurer, Eta Kappa Nu Beta Pi Chapter, Honor Society of the IEEE, 2011-2013

Morin Foundation Engineering and Science Scholar at Macaulay Honors College, 2012

Brooklyn Technical High School Scholarship, 2009-2013

Association of the Old Crows Scholarship, 2011

Major Schultz 1925 Award for Outstanding Achievement in Engineering, 2009