Hongda Shen

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Technical Summary

* Python, Tensorflow, SQL, Spark, Matlab, C/C++, CUDA, HTML+CSS.
* Authored/Co-authored 10+ peer reviewed publications in leading data mining and computer vision journals and conferences.

Professional Experiences

• Bank of America **New York, NY**
Machine Learning Data Scientist ***Mar. 2018 – Present***

* Building advanced machine learning models to detect fraud in all bank transactional channels by leveraging modern deep neural network techniques including Autoencoder, CNN, RNN and GAN.
* Achieved excellent performance in all business metrics showing great potential to reduce money loss by approximately 20% compared to the state-of-the-art solutions.
* Developing new architectures of neural networks to enhance model performance using domain knowledge from experts and augmented features.
* Developing visualization tools for internal data science teams to monitor data quality over time.
* Mentoring junior data scientists to gain familiarity of our fraud prevention framework and guiding them into areas they are passionate about.

• Johnson & Johnson Health and Wellness Solutions **New Brunswick, NJ**
Data Scientist ***Apr. 2017 – Mar. 2018***

* Developed machine learning (deep learning) based frameworks for health behavior change prediction and intervention.
* Developed a new recurrent neural network architecture to forecast the chance of missing medication for Care4Today® Mobile Health Manager app users and achieved an AUC score of 0.94.
* Developed a drug name matching algorithm using word2vec and autoencoder techniques.
* Built interactive dashboards to monitor patients' behavior changes over time.

Education

• Ph.D. in Electrical Engineering, University of Alabama in Huntsville *2013–2016*
* Minors: Computer Science and Math
* Track: Machine Learning and Data Compression GPA:3.82/4.00

• M.S. in Electrical Engineering, Western Carolina University *2011–2013*
* Track: Computer Vision GPA:3.92/4.00

• B.S. in Electrical Engineering, Anhui Polytechnic University *2007–2011*
* Track: Control Theory GPA:3.53/4.00