Jiameng Pu

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https://jmpu.github.io/

Research Interests

Data-driven security, machine learning

Education

May. 2022 (expected) **Ph.D. student in Computer Science**, *Virginia Tech*, Blacksburg, VA.
Focus: Security and machine learning
Advisor: Dr. Bimal Viswanath

Jun. 2017 **B.E. in Computer Science and Technology**, *Wuhan University*, Wuhan, China.
Major GPA 85.72/100

Work Experience

Aug. 2017 - Aug. 2018 **Graduate Research Assistant**, *Network Dynamics and Simulation Science Lab, Virginia Tech*
Advisors: Dr. Anil Vullikanti, Dr. Samarth Swarup

- Conducted research on the application of deep learning to predict spread of diseases based on social networks

Aug. 2016 - Nov. 2016 **Data Scientist Intern**, *IBM China Development Labs, Lab Based Service,* Wuhan, China

- Participated in knowledge graph project and maintained weekly data mining workshops
- Conducted survival analysis model-based evaluation and prediction for business scenarios

Aug. 2015 - Aug. 2016 **Research Assistant**, *State Key Laboratory of Software Engineering – Wuhan University*, China
Advisor: Dr. Bo Du

- Proposed a new robust multiview clustering algorithm based on matrix approximation

Technical Skills

Languages: Proficient in Python, Java, Matlab; familiar with C++, C
Models: CNNs, LSTMs, RNNs, Autoencoder, GANs, Clustering, Classification & Regression models
Libraries & Tools: Tensorflow, Keras, Scikit-learn, Numpy, Pandas, Scipy, PyTorch
Familiar with Eclipse, Git, Tableau, R, Processing, Seaborn, Ggplot2, NetworkX, NLTK, WEKA
Certificates: Neural Networks and Deep Learning; Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization; Structuring Machine Learning Projects by ***deeplearning.ai***
Courses: Convolutional Neural Networks, Sequential Models by ***deeplearning.ai***

Selected Projects

Deep Diffusion Prediction: Developed a deep neural network model (Auto-encoder) to learn and predict spreading path of diseases on large networks. Also developed techniques to understand the predictions made by the model.

Recurrent Neural Network-based Poem Generator: Designed LSTM-based RNN with Keras to generate poems while preserving authorship style.

Collaborative Filtering-based Movie Recommender System: Implemented a movie recommender system based on collaborative filtering learning algorithms.

Publication

2016 **Jiameng Pu**, Qian Zhang, Lefei Zhang, Bo Du, Multiview Clustering Based on Robust and Regularized Matrix Approximation, In Proceedings of the ***2016 International Conference on Pattern Recognition (ICPR 2016).***