Yuan-Ting Hsieh

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Education

University of Wisconsin-Madison	Expected June 2019
Master of Science in Computer Sciences GPA: 4.0/4.0 Coursework Distributed Systems, Computer Vision, Large-Scale Machine Learning a Database Management Systems, Theory and Applications of Pattern Re	
National Taiwan University Bachelor of Science in Electrical Engineering GPA: 3.83/4.0 Honors College Student Research Scholarship, Dean's List (top 5%; 3 semesters) Coursework Machine Learning, Artificial Intelligence, Linear Algebra, Probability an Data Structures and Programming, Algorithms, Operating Systems, Control	nd Statistics
Skills Programming Languages Python, C/C++, MATLAB, Java, Javascript, Qt, Bash Toolkit/Frameworks TensorFlow, Linux, Git, LIBSVM, Scikit-Learn, Open	· •
Work Experience	
 JD.com AI Research Natural Language Processing Research Intern (Python) Performed research on the intent classification module of JIMI, JD's chatbot, using a 	May 2018 - Aug 2018 Mountain View, CA deep learning methods
 Implemented and experimented with several latest NLP papers including Temporal Word-Embedding based models, and Hierarchical Attention Network in TensorFlow Proposed a hierarchical attention dilated convolutional neural network model and fin 350,000 training data to achieve 88.9% accuracy with 287 class on 40,000 testing data 	l Convolutional Network, Simple to verify their effectiveness ne tune the hyper-parameters on
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- · Performed PatchMatch algorithm in multiple scales to achieve smoother images
- · Developed a MATLAB user interface which enables users' interactive feedback to improve the final result

Movie Question Answering (MovieQA) [Python, Keras]

- Trained bidirectional Gated Recurrent Units network to efficiently process long plots and obtained an average accuracy of 35% on 14,994 questions, each with 5 multiple-choice answers
- · Implemented End-To-End Memory Network with shared linear projections to further improve the accuracy to 38%

MOOC Dropout Prediction (KDD Cup 2015) [Python, XGBoost]

- · Extracted and aggregated 482 features from 8 million users' behavior data by exhaustively feature engineering
- · Analyzed with Gradient Boosting Decision Trees to achieve a Mean Average Precision of 0.968 of top 9,000 predictions

Real Steel [C/C++, Qt, QML] [Video] [Code]

- · Built a motion-sensing boxing game with graphic user interface without prior knowledge in Qt in a month
- · Integrated 6-DOF motion sensors and Raspberry Pi with Bluetooth and Wi-Fi to detect movements in real time

Publications

 Yuan-Ting Hsieh^{*}, Shih-Yen Tao^{*}, Yao-Hung Hubert Tsai, Yi-Ren Yeh and Yu-Chiang Frank Wang, "Recognizing Heterogeneous Cross-Domain Data via Generalized Joint Distribution Adaptation", in *IEEE International Conference on Multimedia and Expo.* 2016 (Oral: top 15%; "equal contributions) [PDF] [Code] [Data] [Talk] [Slides]