MENGYUAN WANG

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EDUCATION

Northeastern University, Boston, MA   *Jan 2019 - Present*
Master of Science in Computer Science

Northeastern University, Boston, MA   *Sept 2018 - Dec 2018*
Master of Science in Electrical and Computer Science with concentration in Computer Vision, Machine
learning and Algorithms   Overall GPA: 3.8/4.0
Related Courses: Fundamentals of Computer Engineering, Introduction to Machine Learning

Beijing Information Science and Technology University, Beijing   *Sept 2014 - June 2018*
Bachelor of Engineering in Computer Science and Technology   Overall GPA: 3.5/4.0
Related Courses: Algorithms Analysis and Design, Artificial Intelligence, Comprehensive Practice of
Intelligent System, Operating System, Compilation Principles, Software Engineering

TECHNICAL SKILLS

Computer Languages	C/C++, Python, Java, Javascript, HTML5/CSS, MATLAB, Shell
Software & Tools	QT, LaTeX, Scikit-learn, Tensorflow

EXPERIENCE

Natural Language Processing Lab, Tsinghua University, Beijing   Dec 2016 - June 2017
Undergraduate Intern

· Co-built and maintained THU Open Chinese Lexicon(THUOCL), which received 100+ stars on github.
· Partipated in LegalAI Project and contributed to event extraction: used CRF model to implement
  sequence labeling with extending datasets iteratively for legal instruments of different types.
· Reproduced Word2Vec models with generated word vector accuracy of 21% on WordSim353 test sets.

PROJECTS

Google Analytics Customer Revenue Prediction   Nov 2018
Final Project of Introduction to Machine Learning

· Implemented feature engineering according the dataset, used ensembled method of XGBoost, Light
  GBM and CatBoost to improve result, and finally ranked 20% in the Kaggle competition.

Energy and Performance Aware Task Scheduling in Mobile Cloud Computing Environment   Nov 2018
Final Project of Fundamentals of Computer Engineering

· Implemented modified HEFT algorithm to generate the minimal-delay scheduling as baseline and sub-
  sequently optimized energy consumption by migrating tasks among the local cores and the cloud iter-
  atively.

Leaf Classification System   Mar - May 2018
Undergraduate Thesis

· Collected and cleaned leaf image data for training, and used dark channel prior and guided filter
  algorithms to remove the haze.

- Trained SVM model on MATLAB to classify leaves of different types after extracting geometric and textural features and reducing dimensions using PCA.
- Used CNN model with Tensorflow framework to implement it, and compared performance of their efficiency.

Intelligent Human-Computer Checkers Game Mar - May 2017

Project of Scientific Research Practice

- Utilized C++ with Qt framework to implement an interactive checkers game program.
- Used alpha-beta pruning search algorithm to identify optimal moves.
- Optimized weightings within AI contextual evaluation functions through Q-learning algorithms.
- Proposed piece status matrix algorithm to optimize the engine strategy selection process.