

Mingsi Xu

Male

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Education background

2012.09 - 2016.07

China Jiliang University

Metrology and Control Science

Bachelor

- GPA : 3.74(Rank: 6th of 226)

Honor : Outstanding Graduates of ZheJiang Province

2017.09 - 2020.07

East China Normal
University

Data Science and Engineering

Master

2018.07 - 2018.09

Peking University

China AI Talent International Training Program

(Admission Rate less than 3%)

- Taught by Kai-fu Lee, Andrew Ng, John E. Hopcroft, etc.

Recent Projects

1. Constructing Recommendation System via Knowledge Graph

(In Meituan AI platform)

2018.6-2018.11

- Description: Participate in the project initiated by MSRA researcher via Knowledge Graph and implement the model of Ripple Net, DKN and CKE. We compare several Recommendation Algorithms with KG and classical Recommendation methods and generate Recommendation Reason by KG path.

Innovations: 1.Embedding Method Based on Analogical Reasoning 2. Joint Learning of Features Learning and Recommendation 3. Multi-Task Feature Learning 4. Interpretable Recommendation System

2. Medical Entity Extraction Model based on External Knowledge Enhancement and Transfer Learning

2018.12-2019.4

(Cooperate with Huashan Hospital of Fudan University)

- Description: Establish the Entity Extraction Model in Biomedical Field. Language model, Deep Active Learning, Semi-supervised Learning (Based on Divergence) is used for unsupervised data. Multi-task Learning is utilized for relative supervised data. I propose feature template method and character and word combination method for External knowledge enhancement.

Innovations: 1. Automatic data annotation using Semi-supervised Learning 2. External Knowledge Enhancement Integrating Medical Dictionary Information 3. MTM with Shared -Private Patterns

Research Experience

- 1 Top 1.2% in Kaggle 2019 Text Mining Competition ---Quora Insincere Questions Classification (Rank 48th of 4013 teams)

Main teches: Focal loss, GHM loss, SRU+LSTM+CapsulesNet+self attention, CLRLr , Masked in batch, Cross View Learning

- 2 IEEE ICDM 2019 (CCF-B) : Optimal Model Averaging Estimation for Passenger Volume Alert (first-author)

Main teches: Model Averaging, AICc, Mallows's Cp, Bayesian Optimization, Missing data strategies

- 3 Top 25 in Global AI Challenger 2018 (Fine-Grained User Comments Sentiment Analysis)

Main teches: Multi-Task Learning, N-BiSRU, Hard attention, Multi-Head attention, Drop/Shuffle words, Adversarial Noise

- 4 Second Prize of 2018 National Graduate Statistical Modeling Competition: Construction of Credit Scoring Models

- 5 The First prize of the 2016 Electronic Cup Mathematical Modeling competition (rank 2th in Zhejiang Province): Stepped-Wave Harmonic Elimination Technology for Cascaded H-Bridge Converter

- 6 Third Prize in 2016 Teddy Cup National Data Mining Challenge : Demand of Employment Market Forecasting Model

- 7 Honorable Mentions of 2015 MCM(American Mathematical Modeling Competition) : Malaysian Airlines Lost Position Prediction

- 8 2015 National Patent of Image Recognition For Crop based on Morphological Operator

- 9 National Second Prize of 2014 CUMCM (China Undergraduate Mathematical Contest in Modeling): Folding dynamic process modeling of flat folding table

Skills

- Familiar with C++11, python3, R, Matlab, Graph Database
- Skilled in Python Frameworks like Pytorch, Keras, Tensorflow, Scikit-learn, Pandas, Spacy, Seaborn, mxtend, etc.
- A sound basis of ML methods: EM, Sequential Model like HMM, Nystrom Method such as Spectral Clustering, Inference Method of PGM like MCMC ,Emsemble method, etc.
- Have a command of state-of-the art DL method like MTL ,GNN, Meta-Learning, GAN