ZOU XIAOHAN

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RESEARCHES

Speech Emotion Recognition
Guide: Dr. Du Qingfeng

Mar 2019 – Jun 2019   Tongji University, Shanghai

- Processed and selected features extracted by Opensmile.
- Constructed models based on LSTM, CNN, SVM and MLP.
- The performance of our models shows better and competitive results on CASIA (Chinese), EMODB (German), SAVEE (English) and RAVDESS (English) data set when competing with state-of-the-art methods. The recognition accuracy is above 80%.

Question Answering System
Guide: Dr. Zhang Fan at IBM & MIT.

Nov 2018 – Jan 2019   Shanghai, China

- Created a question answering system aiming to provide information about stocks and weather based on Rasa NLU.
- Used spaCy and sklearn for intention identification and entity extraction, SVM was choosed as the classifier.
- Our system could deal with incremental query for multiple times in a single-round and query for multiple times in multiple rounds, handle pending state transitions and pending actions, and recognize negative entity.

Anomaly Detection
Guide: Dr. Du Qingfeng

Sep 2018 – Jan 2019   Tongji University, Shanghai

Built a anomaly detection system for microservices architecture. (Waiting to be completed)

Neural Machine Translation
Guide: Dr. Lin Tong.

Jul 2018 – Aug 2018   Peking University, Beijing

- Adopted a new Sharing-the-hidden-space-based Dual Learning framework, which can utilize the structure duality to improve its performance on dual form tasks and better regularize the model.
- Designed two reconstructors consisting of encoders and decoders of two translators based on sequence-to-sequence neural machine translation model with attention mechanism to extract more information from unlabeled data.
- Our model showed better performance when compared to strong baselines on small data set (English and Vietnamese, from IWSLT 2015).

EXPERIENCE

Microsoft Student Club (MSC)
Chief Experience Officer & Vice Chief Technology Officer

Sep 2018 - Jun 2019   Tongji University

- Responsible for the management of related affairs of club.
- Organized and gave lectures about data structure, algorithm and machine learning in technology courses.

EDUCATION

B.Eng | Software Engineering
Tongji University

Expected 2020   Shanghai, China

Relevant Coursework:

- **Statistics & Mathematics:** Probability and Mathematical Statistics, Discrete Mathematics, Calculus, Linear Algebra, et al.
- **Computation:** Data Structure, Algorithm, SOA and Web Services, Distributed System, Software Engineering, Software Test, et al.

AWARDS

- 17' China Collegiate Programming Contest (CCPC) - WFinal **Qualification**
- 17' Programming Contest of East China Normal University **Second Prize**
- 17', 18' China Mathematical Contest in Modeling (CUMCM) **Shanghai Second Prize**
- 17', 18' Programming Contest of Tongji University **Second Prize**
- 18' ACM International Collegiate Programming Contest (ICPC) - Asia Regional **Qualification**
- 18' China Collegiate Programming Contest (CCPC) - WFinal **Bronze Medal**
- 18', 19' The Mathematical Contest in Modeling (MCM) **Successful Participant**
- 19' Student Innovation Training Program **Certified as Eligible**

PUBLICATIONS

- **Xiaohan Zou**. "A Survey on Application of Knowledge Graph". Under Review.

TECHNICAL SKILLS

- **Languages:** Python, C/C++, MATLAB, Java, JavaScript
- **Frameworks:** TensorFlow, Keras, scikit-learn

ACTIVITIES

- Softball Team **- Member**
- Association of Baseball and Softball **- Vice President (Branch in Jiading Campus)**