Andong Chen

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EDUCATION

Mizu University of China Sep 2019 - Jun 2022
Natural Language Processing, Master Information Technology Beijing

Queen Mary University of London(International Exchange&Double Degree) Jan 2021 - Jan 2022
London
Big Data Science, Master Science and Engineering

Hunan University Sep 2015 - Jun 2019
Electrical Engineering and Automation, Bachelor College of Electrical and Information Engineering Chang Sha

PUBLICATIONS&PATENT

JCapsR: A joint capsule neural network learning model for Tibetan language knowledge graph representation Jan 2021 - May 2021
Beijing
China and National Language Resource and Monitoring Research Center
Introduction: In this paper, we propose a joint capsule neural network (JCapsR) learning model for Tibetan language knowledge graph representation based on the previously constructed Tibetan language knowledge graph.
- Built the TransR and Caps models and completed the whole experiment
- Wrote the experimental section

A Joint Model for Representation Learning of TibetanKnowledge Graph Based on Encyclopedia Dec 2019 - Feb 2021
Beijing
China and National Language Resource and Monitoring Research Center
Introduction: The paper mainly constructs the first Tibetan encyclopedic knowledge graph dataset and improves the representation ability of the Tibetan knowledge graph.
- Built the TransE and CNN models and completed the whole experiment
- Wrote the whole paper with Prof. Yuan Sun

Patent : A service system for automatic generation of reading questions in Tibetan language for elementary school Jun 2021 - Jun 2021
Beijing
Minzu University of China
Introduction: The present invention relates to a service system for the automatic generation of reading questions in the Tibetan language for elementary school.
Patent Number: CN202110228195.5
- Extract the features from the Tibetan texts of each grade by logistic regression as a classification model
- Obtain a large number of Tibetan texts that can be read by primary school students through crawlers and the classification model
- Fine-tune T5 model and obtain the Tibetan question generation machine

OPEN SOURCE CONTRIBUTION

Thorough-pytorch Jul 2021 - Present
Role:Content builder Beijing
Introduction: Through team learning, you will be able to master the basic knowledge and content of PyTorch from shallow to deep.
- Result: **454 start** and **302 fork**
- Open source link:https://github.com/datawhalechina/team-learning-program/

Food Voice Recognition(Alibaba-Tianchi-Match) Jan 2021 - May 2021
Role: Competition designer and content builder HangZhou
Introduction: Alibaba-Tianchi and Datawhale Co-Sponsor Basic Data Science Competition
- In Ali Tianchi. I designed the competition, provided speech recognition knowledge, written Baseline, and live streaming at Tianchi to interpret the competition questions and codes.

Dcoker-Team-Learning Jan 2021 - Mar 2021
Role: Content builder Datawhale Beijing
Introduction: This tutorial is a collaborative project with “docker from beginner to practice”, and we

have reorganized and refactored it based on the original project with the permission of the author.

- Result: **454 Start** and **302 fork**
- Open source link: https://github.com/datawhalechina/team-learning-program/

Hands-on data analysis Jan 2019 - May 2019
Role: Project sponsor and content builder Beijing
Introduction: An open-source data analysis project for everyone to learn by themselves

- Use the Titanic data set to divide tasks according to data observation, data manipulation, data visualization, data modeling, and model evaluation.
- Result: **400 start** and **163 fork**
- Open source link: https://github.com/datawhalechina/hands-on-data-analysis

INTERNSHIP EXPERIENCE

Institute of Computing Technology, Chinese Academy of Sciences May 2021 - Present
NLP Research Intern Ai Lab Beijing
Introduction 1: The project mainly does quantification of deep learning models

- Do quantification of the speech model Waveglow and evaluate the quality of quantification by crowdsourcing.
- Build the first NLP quantitative reasoning benchmark with mentors.
- Compare with Nvidia's Transformer quantization solution.

Introduction 2: Build a large pre-trained language model

- Choose a better token vocabulary through different experiments.
- Research position details and chooses a better way.
- Build data cleaning and de-duplication tools.

Queen Mary University of London Feb 2021 - Present
NLP Research Intern Computational Linguistics Lab London
Introduction: Research low-resource language machine reading comprehension

- The experimental part has been completed.
- The paper will be submitted to ACL.

HONORS & AWARDS

Third Prize Scholarship (10%), Mizu University of China , 2019-2020
“Huawei Cup” China Post-Graduate Mathematical Contest in Modeling(17th) , Third Prize(15%) , The Chinese Society of Academic Degrees and Graduate Education 2020
China College Students’ ‘Internet+’Innovation and Entrepreneurship Competition(6th), Third Prize(25%), Beijing Municipal Education Commission 2020
WeBank’s fintech university competition(2th), Top 10(10/100), WeBank & Shenzhen University WeBank Institute of Fintech 2020

TALKS

Alibaba Could-TianChi: Speech Recognition Novice Competition Jun 2021
Invited Talk, Alibaba Could-TianCh, Beijing

Open-source: Open source yourself Aug 2021
Invited Talk, Institute of Computing Technology, Chinese Academy, Beijing

Paper Share: ERNIE 3.0 Aug 2021
Invited Talk, DatawhalePaper, Beijing

Bert and Machine Reading Comprehension Jul 2021
Invited Talk, Datawhale and Graviti, Beijing

SKILLS

- **Programming Languages:** Python, R, Java
- **Frameworks:** Pytorch, Kreas
- **Tools for NLP/ML:** Huggingface-transformers, Sklearn, NLTK, Pandas, Numpy
- **Others and Soft Skills:** LaTex, Markdown, Linux, Shell, Anaconda