

Benjin Zhu

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EDUCATION

SOUTH CHINA UNIVERSITY OF TECHNOLOGY

B.E. IN SOFTWARE ENGINEERING
Sep. 2014 - Jul. 2018 | GuangZhou, CN
Cum. GPA: 3.6/4.0
Received SCUT ScholarShip in 2015, 2016 and 2017

COURSEWORK

UNDERGRADUATE

Operating System
Computer Networks
Compiler
Data Structures and Algorithms
Machine Learning
Data Mining
Artificial Intelligence
Distributed Intelligent Software
Parallel Computing
Computer Vision

SKILLS

PROGRAMMING LANGUAGES

Proficient:
C++ • Python
Familiar:
Java • Swift

FRAMEWORKS

Tensorflow • MXNet • OpenMP • MPI • CUDA • OpenCV • iOS • MongoDB

AWARDS

Coming...

INTERNSHIP

DIDI RESEARCH INSTITUTE | SPEECH RECOGNITION RESEARCH INTERN

Jul. 2017 - Nov. 2017 | Beijing, CN

- Engaged in voice recognition algorithms, speech recognition engine and related product development.
- Keep track of cutting-edge outputs and integrate into our exist speech recognition models, such as dann, segan.

GZ KEY LABORATORY OF ROBOTICS AND INTELLIGENT SOFTWARE | RESEARCH ASSISTANT

Oct. 2015 - Jun. 2017 | GuangZhou, CN

- Doing Research in Machine Learning and Recommendation, writing papers.
- Collecting data, design and implement algorithms.
- Participating in Competitions like CCF Data Foundation and Kaggle.

RESEARCH/PROJECTS

DOMAIN ADVERSARIAL SPEECH RECOGNITION | TF/IML

Jul. 2017 - Sep. 2017

- Add domain adversarial layers to our speech recognition pipeline.
- Use gradient reversal layer to subtract domain specific labels from source domain, improve regularization. WER drops 1% approximately.
- Use GAN to generate enhanced audio data(0db, 5db, 10db, 15db).

DEEP AUDIO-BASED MUSIC RECOMMENDATION | TF/MX

Jul. 2016 - Jul. 2017

- Collect MSD, EchoNest Taste Profile, and 7Digital Audio Clips Datasets.
- Use a CNN(4 [ConvLayer+ReLU+Maxpooling]s + 3 Fully Connected Layers) to extraction frame-level features of audio signals.
- Improve the accuracy of the music recommendation by positioning target songs in collaborative filtering latent space.

UIS: A NOVEL SOCIAL NETWORK USER RECOMMENDATION FRAMEWORK | JAVA

Oct. 2015 - Oct. 2016

- Implement our modified LDA model(integrate LDA and General Polya' Urn).
- Convert topics into communities, then perform matrix factorization to recommend users.

GITSOO: AN ACADEMIC VERTICAL SEARCHING ENGINE | C++/JAVA

Dec. 2015 - Aug. 2016

- Write indexing, query, and store parts of the C++ off-line search engine.
- Responsible for the development of data crawling(Scrapy), MongoDB data storage, and backend Lucene search engine services.

PUBLICATIONS

- Ke Xu, Xushen Zheng, Benjin Zhu, Yi Cai, Huaqing Min, "Improving User Recommendation by Extracting Social Topics and Interest Topics of Users in Uni-Directional Social Networks," submitted to KBS.