

TU NI

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SUMMARY

- Engineering student with great interest in positions related to Data Science & Artificial Intelligence
- Technical Skills: Optimization, Machine Learning, Deep Learning, Mathematical Modeling, Database
- Programming Skills: Python, SQL, TensorFlow, MATLAB, R, Spark, Maple, C, Microsoft Office

EXPERIENCE

Research Assistant

Feb.2017-present

Berkeley Artificial Intelligence Lab, University of California, Berkeley

EDUCATION BACKGROUND

College of Engineering, University of California, Berkeley, USA

Expected Jun.2017

Master of Engineering in Industrial Engineering & Operations Research, GPA (3.81/4)

School of Mathematical Sciences, Zhejiang University, China

Jun.2016

Bachelor of Science in Mathematics & Applied Mathematics, GPA (3.86/4)

ACADEMIC & PROFESSIONAL PROJECTS

Neural Code Completion with WaveNet

Feb.2017-present

Berkeley Artificial Intelligence Lab, University of California, Berkeley

- Designed a WaveNet model to achieve automatic code completion with Tensorflow.
- Implemented with 150,000 JavaScript programs as training and testing dataset.
- Scaling and improving the algorithm for better performance in comparison with RNN (LSTM).

Machine Learning for Patent Similarity Analysis

Aug.2016-present

Capstone project, University of California, Berkeley

- Constructed a model to find relevant prior art for 5 million patents, reducing the probability of litigation.
- Applied Natural Language Processing algorithm to patent documents and train the model with Python.
- Working with Google and USPTO to improve the evaluation and prediction in patent litigation.

Converting Forest Fire Management Waste to On Demand Renewable Energy

Sept.2016-Jan.2017

Environment & Renewable Energy Lab, Berkeley Institute of Data Science

- Focused on the optimization of supply chain from forest fire waste to power plants.
- Used clustering techniques to improve the biomass transportation with PostgreSQL & QGIS.
- Developed the algorithm to the whole California in a huge data scale of roads and biomass (4 TB).

Music Recommendation with Convolutional Neural Network

Sept.2016-Dec.2016

Research project, Machine Learning at Berkeley

- Improved content-based music recommendation with convolutional neural network by Keras.
- Computed the latent factor for both users and songs (1 million) by weighted matrix factorization as labels.
- Preprocessed the music audio clips into Mel-spectrograms and used PCA to extract the features.

LEADERSHIP ACTIVITIES

The Coach of School Soccer Team

Sept.2012-May.2016

- Organized and led a cohesive team to attend more than 30 intramural soccer matches.