MOYAN MEI

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EDUCATION

Simon Fraser University

2014.9 - 2016.8

Master of Science in Statistics

Burnaby, Canada

· Graduate Fellowship, GPA: 3.76/4.0

Dalhousie University

2011.5 - 2014.5

Bachelor of Science in Statistics (Honors)

Halifax, Canada

• Highest GPA: 3.92/4.0 among (25+) major courses

• First Class Honors, cGPA: 3.82/4.0

· President's Entrance Scholarship, cGPA: 92/100

CORE QUALIFICATIONS

Language & Tool Python, R, SQL, Spark, Matlab, MongoDB, Bash, LATEX

Google Cloud Service, AWS S2/EC2, Docker

Deep Learning Framework Pytorch, Tensorflow, Keras, PaddlePaddle, Mxnet, Theano

NLP Library Allennlp, Flairnlp, Fastnlp, Hanlp, Spacy, NLTK

In-depth Knowledge Deep Neural Networks, Machine Learning methods, Optimization

Error Analysis, Statistical Informac, Probability, Linear Algebra

Error Analysis, Statistical Inference, Probability, Linear Algebra

EXPERIENCE

WGames Inc 2018.1 - Present

Machine Learning Scientist

Toronto, Canada

- Leveraged hybrid latent representation learning models e.g. lightFM and Variational AutoEncoder with WARP loss to recommend high accuracy $\approx 90\%$ daily games to half-million customers
- Designed topic classification, sentiment classification and smart-reply models (> 5 million reviews) with distilled BERT model to improve user experience
- Created a scalable and flexible machine learning pipeline, e.g imbalanced supervised learning and unsupervised learning, for customer segmentation to identify their unmet needs
- Recommended business insights from retention analysis, engagement analysis and non-fatal error analysis which leads to **Top 3 most popular in Google Play** under the same category

Leafy AI

NLP Scientist

2017.12 - 2019.7

Beijing, China

- Developed a Chinese multi-task learning Python toolkit for customers' daily efficiency, e.g., word segmentation, named entity recognition, event extraction, and topic classification
- Boosted in-app search experience of customers by training semantic similar embeddings (e.g words, sub-words, and sentence based) with scalable and memory-efficient FAISS
- Built a transferable and configurable personalized Question and Answer (Q&A) system for customers to solve their needs from their knowledge database
- Implemented knowledge distillation and compression on deep learning NLP models to obtain lowmemory and mobile-friendly offline models in ONNX format

Istuary Innovation Group

Data Scientist

2016.9 - 2017.10 Vancouver, Canada

• Designed a 1:1 facial verification, 1:N facial recognition, and face alignment deep learning prototypes embedded in smart camera

- \cdot Proposed a two-stage facial verification method, which improves the state-of-the-art model by 6% 30% on different case scenarios
- Maintained a fast, high-quality, and large-scale image data pre-processing framework, including image cropping, resizing, clustering, and augmentation
- Established an automatic summarization API which produces a condensed representation of its inputs for the Chinese news APP by adapting KL divergence, TextRank, and Recurrent Neural Networks
- · Increased customer stickiness to our news APP by recommending semantic similar news with fastText

Center for Operations Excellence, UBC (Co-op)

2015.5 - 2015.9

Technical Analyst/Statistician

Vancouver, Canada

- Applied sentiment analysis and topic modeling methods e.g., LDA, Naïve Bayes, Random Forest, and Hierarchical Clustering, with TF-IDF on (> 8 Million Tweets) for Boeing company
- · Deployed a tweets processing pipeline including collecting, pre-processing, and parsing by ML models
- Derived statistical outputs and business insights through data mining on medical data and text data for Fraser Health Authority

COMPETITION

Statistical Society of Canada Conference Competition

2014.1 - 2014.5

Uken Company

Toronto, Canada

- Applied exploratory analysis with visualization on 300K users to obtain interpretable features about revenue among predictors, e.g gender, platform, and in-game items, etc.
- Built an ensemble high accuracy $\approx 94\%$ classification model from logistic regression, linear discriminant analysis, and support vector machine for the retention of the game users
- Constructed additive regression models, e.g. generalize additive model and multiple linear regression to predict overall revenues with accuracy $\approx 87.5\%$
- 3rd place winner of the case study competition

ACHIEVEMENTS

Graduate Fellowship from Simon Fraser University Third place winner of SSC Conference Competition Six times Dean's List at Dalhousie University 2016.1

2014.5

2011.5 - 2014.5