Liangliang Zheng

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EDUCATION

Vrije Universiteit Brussel	**Brussels, Belgium**
Master of Science in Applied Sciences and Engineering: Computer Science (AI)	*Sep 2018 - Present*
Hunan Agricultural University (ChangSha)	**Hunan, China**
Bachelor of Science in Information and Computing Science (GPA: 87.17/100)	*Sep 2014 - Jun 2018*

Experience

Euroclear	**Brussels, Belgium**
Junior Data Scientist	*Oct 2020 - Present*

o **New Issue Prospectus Extraction**
  - something
o **Taskize KPI Automation**
  - something
o **Transaction Monitoring Recalibration**
  - something
o **Money Transfer Fail Instruction Match**
  - something

Vrije Universiteit Brussel AI Lab	**Brussels, Belgium**
Student Job	*Mar 2020 - Sep 2020*

o **3D Point Cloud Segmentation**
  - ETL S3DIS data and trained with IPC-Net.
  - Cleane the STL files to by removing external box (C++).
  - Converting STL 3D files to HDF5 point clouds using python, compress the file to almost 579x times smaller,182.0GB to 321.9 MB.
  - Converting predicted point clouds back to STL using python scripts. (Vector Similarity, KNN).
  - Deployed the algorithm on cluster.

DERKEE Tech Co., Ltd	**GuangZhou, China**
Java Junior Engineer(Summer Internship)	*Jun 2017 - Sep 2017*

o **Internal Office Automation Application**
  - Participated in the implementation of preliminary interfaces of internal OA
  - Tools & Framwork: JavaScript, Spring+Struts+Hibernate

Other PROJECTS

Personal Assistant	*Jul 2019 - Jul 2020*

o

Euroclear Machine Learning Contest	*Jul 2019 - Jul 2020*

o

DeepRL-for-Financial-Stock-Trading	*Jul 2019 - Jul 2020*

o

Learning Building Blocks of Speech based on Deep Networks	*Jul 2019 - Jul 2020*

o Transformed LibriSpeech ASR corpus data to MFCC features and developed end-to-end character level and phoneme level RNN, GRU, Bi-LSTM models to do speech recognition tasks (TensorFlow GPU) deployed on VUB HPC.
o Reproduced Generative Block based on *High Fidelity Speech Synthesis with Adversarial Networks* to investigate speech synthesis (Dilated convolution, Batch normalization, Gradient decay, Dropout, Adam).

Statistical foundations of machine learning	*Apr 2019 - May 2019*

- Built a predictive stacking model based on the data downloaded from Kaggle (Private leaderboard Ranking: 1st place) platform which includes roughly 40000 labeled samples and 45 features.
- Implemented in the R language feature selection procedures (e.g. mRMR, Lasso), model selection procedures (e.g. SVM, Decision Tree, Random Forest, neural networks), combination of models strategy (e.g. Bagging, Boosting, Stacking).

Leetcode: Personal Python Solution *Oct 2019 - Present*
- Personal Leetcode problem solutions in Python. So far solved 200+ middle-level hard-level questions and implemented algorithms or data structure included BST, Binary Search, Dynamic Programming, Graph, List, Search (DFS, BFS), String process, Tree, Double-Pointer

Skills

- Programming Languages (Main): Python, Matlab, Java, JavaScript, Bash
- Programming Languages (Secondary): C++, MySQL, R, Prolog, Lua, SPARQL, Scala
- Framework: TensorFlow, Node.js, Spark, PyTorch
- Deep Network: CNN(VGG, ResNet), RNN Transducer, CTC, LSTM, Bi-LSTM, GAN, Autoencoder
- Library or ML Algorithms: Scikit-learn, GBDT, XGBoost, Random Forest, KNN, EM, SVM, etc
- Mostly used tools: Ubuntu 16.04, Overleaf, Vim, GitLab, VSCode, Colab, Spyder