Terry Tan

North York, ON | 236-965-5207 | sa516266@mail.ustc.edu.cn

MACHINE LEARNING ENGINEER

SKILLS

- Python3.X (senior), familiar with Numpy, Pandas, Matplotlib, and Scikit-learn
- Deep learning framework (junior), familiar with TensorFlow and PyTorch
- Data pipeline (junior), familiar with data clean and preprocessing, feature engineering, information extraction, structured prediction, modeling, and fine tuning
- Modeling and algorithm (junior), familiar with ML/DL, have practical experience such as messy dataset, unbalanced samples, overfitting or non-convergence loss and optimization
- Data warehouse/ETL (junior), familiar with dimensional modeling, schema design, normalization, and denormalization
- SQL and NoSQL (senior), familiar with MySQL, HiveQL, BigQuery, and MongoDB
- Scala2.12 (junior), familiar with Spark core, Spark SQL, Spark streaming, Spark MLlib
- C/C++ (junior)
- RPA (junior), familiar with UiPath Studio, VBA, and Airflow
- Stay curiosity on new technology and try to be a quick learner
- Have experience working as part of an agile team
- Fluent in Mandarin and English

EDUCATIONAL BACKGROUND

Diploma, Artificial Intelligence
Centennial College, Scarborough, ON   9/2020 - Present
Relevant Course Completed: Introduction to Artificial Intelligence, Advanced Database Concepts, Supervised Learning, Big Data Tools for Machine Learning, Unsupervised and Reinforcement Learning, Neural Networks, AI Ethics and Data Governance, Natural Language Processing and Recommender Systems, Deep Learning, Cloud Machine Learning

Master of Engineering, Software Engineering
University of Science and Technology of China   9/2016 - 6/2020
Relevant Courses Completed: Multimedia Signal Processing, C++ Programming, Multimedia System and Application, Design of Neural Network, IT Service Management, Big Data Basis, Information Security

Exchange Program at Clemson University, South Carolina, USA   8/2017 – 2/2018
Courses Completed Included: Statistical Method (test hypothesis, completely randomized design, randomized block design), Software Verification, Applied Data Science (Regression, Linear/Non-linear logistic, SVD, SVM, k-means)

Bachelor of Engineering, Communication Engineering
Chongqing University of Posts and Telecom   9/2011 - 7/2015
Relevant Course Completed: C Language Programming, Signal and System, Digital Signal Processing, Database Application, Principle of Microcomputer and Interface Technology

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WORK EXPERIENCE

Institute of Automation of the Chinese Academy of Sciences   4/2018 - 3/2019
Intern
- Worked on the validation of model quantization for deep learning project
- Tested the C++ based deep learning model quantizer developed by team
- Compared the runtime and precision of quantized and not quantized models
- Compressed runtime by 30% with only 0.015 mAP loss

Artefact   3/2020 - 10/2020
Data Engineer
- Analyzed client CRM data and extracting features
- Built a model to predict the second purchase propensity and delivered the model results to our client
- Determined that sales could be improved after industrialization with 77% accuracy and 71% F1 score are ensured
- Collected and compiled client reports and predicted the future volume based on the past growth rate
- Completed two phases: first, reviewing the complete work flow on Excel and then, automating the process of data collection, calculation & analysis
- Provided the data to the client for strategy and decision making

PUBLICATIONS

Paper
Terry Tan, Singing Evaluation based on Deep Metric Learning[C], 2019 International Symposium on Computer Graphics, Multimedia and Image Processing. (**Best Student Paper**)
Project
李春杰,张启军,谭嘉瑞,颜智润.Linux 文件加密系统设计[J].物联网技术,2018,8(02):77-79+82.

OTHER QUALIFICATIONS

Microsoft Office Specialist   5/2015
Online Courses
Achieving Advanced Insights with BigQuery (Coursera)   3/2021
Principle and Application of Big Data (MOOC)   3/2020
- HDFS (HA, Federation), MapReduce, YARN, NoSQL, Hive
- Spark Core, Spark SQL, Spark streaming, Spark MLlib
Deep Learning Specialization (deeplearning.ai)   3/2018

e-PORTFOLIO

visit here to learn more projects - https://tanjiarui.dev/projects