

Terry Tan

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MACHINE LEARNING ENGINEER

specialized in data mining, feature engineering, and modeling
more than one year experience in ML and Pattern Recognition

HIGHLIGHTS OF SKILLS

- Python3.X (senior), familiar with Numpy, Pandas, Matplotlib, and Scikit-learn
- Deep learning framework (junior), familiar with TensorFlow and PyTorch
- Modeling and algorithm (junior), familiar with ML/DL, have practical experience such as messy dataset, unbalanced samples, overfitting or non-convergence loss and optimization
- C/C++ (junior)
- SQL and NoSQL (senior), familiar with MySQL, HiveQL, BigQuery, and MongoDB
- Scala2.12 (junior), familiar with Spark core, Spark SQL, Spark streaming, Spark MLlib
- R (rudiment), touch with rpart, e1071, adabag
- 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

EDUCATION

Diploma, Artificial Intelligence

Sept 2020 - Present

Centennial College, Scarborough, ON

- **Relevant Courses:** 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

Sept 2016 – Jun 2020

University of Science and Technology of China, Suzhou, China

- **Relevant Courses:** 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

Aug 2017 – Feb 2018

- **Relevant Courses:** 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

Sept 2011 – Jul 2015

Chongqing University of Posts and Telecom, Chongqing, China

- **Relevant Courses:** C Language Programming, Signal and System, Digital Signal Processing, Database Application, Principle of Microcomputer and Interface Technology

EDUCATION 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.

The Design of Encrypted Linux File System[J], IoT Technology, 2018

WORK EXPERIENCE

Artefact

Mar 2020 – Oct 2020

Data Engineer

- Analyzed client CRM data and extracted features
- Built a model to predict second purchase propensity and delivered the model results to the client

- Determined sales which could be improved after industrialization with 77% accuracy and 71% F1 score ensured
- Collected and compiled client reports and predicted the future volume based on past growth rates
- Completed 2-Phases of a Project: Reviewed the work flow on Excel and automated the process of data collection, calculation and analysis
- Provided data to client for strategy and decision-making processes

Institute of Automation of the Chinese Academy of Sciences

Apr 2018 – Mar 2019

Intern

- Worked on the validation of model quantization for a 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

OTHER QUALIFICATIONS

Microsoft Office Specialist

May 2015

Online Courses:

- Achieving Advanced Insights with BigQuery (Coursera)
- Principle and Application of Big Data (MOOC)
 - HDFS (HA, Federation), MapReduce, YARN, NoSQL, Hive
 - Spark Core, Spark SQL, Spark streaming, Spark MLlib
- Deep Learning Specialization (deeplearning.ai)

Mar 2021

Mar 2020

Mar 2018