Terry Tan

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PERSONAL SKILLS

- **Technical Skills:**
  - Python3.8/3.9 (senior), familiar with Numpy, Pandas, Matplotlib and Scikit-learn
  - Deep learning framework (junior), familiar with TensorFlow and PyTorch
  - C/C++ (junior)
  - SQL (senior), familiar with MySQL and HiveQL
  - Scala2.12 (junior), familiar with Spark core, Spark SQL, Spark streaming, Spark MLlib
  - R (rudiment), touch with rpart, e1071, adabag
  - Tableau (rudiment)
- **Language:**
  - Mandarin (native)
  - English (TOEFL iBT 100)

EDUCATIONAL BACKGROUNDS

- **Centennial College**   9/2020 - Present
  Credential: Diploma
  Specialty: Artificial Intelligence
  Advisor: Professor Mayy Habayeb
- **University of Science and Technology of China**   9/2016 - 6/2020
  Degree: Master of Engineering
  Specialty: Software Engineering
  Advisor: Associate Professor Dr. Yang Cao, Associate Professor Dr. Guixing Wu
  Principal subjects: Multimedia Signal Processing, C++ Programming, Multimedia System and Application, Design of Neural Network, IT Service Management, Big Data Basis, Information Security
- **Chongqing University of Posts and Telecom**   9/2011 - 7/2015
  Degree: Bachelor of Engineering
  Specialty: Communication Engineering
  Principal subjects: C Language Programming, Signal and System, Digital Signal Processing, Database Application, Principle of Microcomputer and Interface Technology

INTERNSHIP & EXCHANGE EXPERIENCES

- **Institute of Automation of the Chinese Academy of Sciences**   4/2018 - 3/2019
  Intern
  Mentor: Dr. Hao Liu
  - Validation of Model Quantization for Deep Learning

    Testing the C++ based deep learning model quantizer developed by team, and comparing the runtime and precision of quantized and not quantized models. It turned out with only 0.015 mAP loss and compressed runtime by 30%.

- **Artefact**   3/2020 - 10/2020
  Data Engineer
  - PCD 2nd Purchase Conversion

Analyzing client CRM data and extracting features, then building a model to predict the second purchase propensity, and delivering the model result to our client. Sales could be improved after industrialization. Currently, 77% accuracy and 71% F1 score are ensured.

- Portfolio 2030

Collecting and compiling reports from our client, and predicting the future volume based on the past growth rate. Two phases are mainly separated. First, taking the complete work flow on Excel. Then, automating the process of data collection, calculation & analysis and result visualization via Airflow.

➢ **Clemson University**   8/2017 - 2/2018
   Exchange Student
   Courses studied:
   - Statistical Method (Test hypothesis, Completely random design, Randomized block design)
   - Software Verification
   - Applied Data Science (Regression, Linear/Non-linear logistic, SVD, SVM, k-means)

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 course**
   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
   Data Visualization and Communication with Tableau (Coursera)   3/2021

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