

# Tse Man Kit Michael

Senior AI engineer



+852 6502 8747



<https://github.com/michaeltmk>



<https://www.linkedin.com/in/man-kit-michael-tse-4013a5176/>



[tse.man.kit.michael@gmail.com](mailto:tse.man.kit.michael@gmail.com)

## About me

A quick learner, explorer, with Science and Engineering background, who have a great interest in new technology that may change the world. I am interested in working for a fast-growing and challenging company that will encourage my growth and development, so as to be the most efficient and effective employee I can possibly be.

## Skills

Python, GoLang, JavaScript, C++, SciPy, ScikitLearn, Matlab, TensorFlow, Keras, Pytorch, ROS, Gazebo, kafka, MQTT, spark, SQL, NoSQL, Elasticsearch, Arduino, Raspberry Pi, docker, k8s, kubeflow, AWS, databricks, NGINX, LoRa, sigfox

## Education

2019-2021 MBA in Quantic School of Business and Technology

2017-2019 MSc in Mechanical Engineering, The Hong Kong Polytechnic University

2010-2015 BSc in Maths. & Phys., The University of Hong Kong

## Languages

Cantonese

Mandarin

English

German

## Experience

- 2021-now Senior AI Robotic Engineer Varadise, Hong Kong  
Lead of AIoT team which managed IoT and AI projects.  
Managed the development of IoT hub, MLOps, data pipeline, Devops, robotic simulation and chat bot.
- 2020-2021 Data Engineer DreamsAi, Hong Kong  
Been responsible for web scraping, data migration, server infrastructure, and AI model development.  
Managed the internal knowledge base (knowledge Engineer)
- 2017-2020 Technical Support Engineer PTC International Limited, Hong Kong  
Provided technical support, demonstration, documentation and troubleshooting.  
Customized data-loggers with alarm function or dashboard etc..

## MOOCs

- Jun 2021 Machine Learning Engineering for Production (MLOps) Specialization DeepLearning.ai  
*Learnt how to deploy ML in production, such as data lifecycle, model pipeline as well as deployment pipeline.*
- Jun 2020 IBM AI Engineering Specialization IBM  
*Learnt to use SciPy, ScikitLearn, apache spark, Keras, PyTorch.*
- Mar 2020 IBM Data Science Specialization IBM  
*Understood the fundamental theories of data science. Learnt to use the ibm cloud, cloud programming, SQL, pandas library, geoson data and beautiful soup package. Link to the capstone project: [Analysis of population and Venue distribution in Hong Kong](#)*
- Feb 2020 Deep Learning Specialization DeepLearning.ai  
*Understood and Practiced on object detection, face recognition, neural style transfer, language translation, speech to word translation, ResNet, Inception, R-CNN, YOLO, CTC, optimizing metrics, dataset distribution strategy, IoU, Bleu score.*
- Nov 2019 Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning Certificate DeepLearning.ai  
*Practiced on CV, NLP, and Sequence Prediction using TensorFlow. Learnt to the concepts of CNN, RNN/LSTM, dropout layer, batch normalization, learning rate adjustment etc.*

## Self-Projects

- 2021 Telegram Bot  
*Chat bot which can report weather by command and submit e-forms. Controlled devices and sent alert of IoT projects.*
- 2020 Analysis of population and Venue distribution in Hong Kong IBM  
*Used K-means clustering to analysis the relationship between population and venues distribution in HK.*  
<https://shorturl.at/tDFJV>
- 2019-2020 OCR (captchas breaking)  
*Demonstrated on computer vision aim with CNN, data argumentation techniques, written in Tensorflow.*  
*Trained on captchas collected in web and a captchas simulator.*  
[https://github.com/michaeltmk/Captcha\\_cracker](https://github.com/michaeltmk/Captcha_cracker)
- 2019-2020 Wireless Temperature and RH sensor  
*Connected to a self-hosting server using a wifi single chip board.*  
[https://github.com/michaeltmk/StandAlone\\_T-H\\_sensor](https://github.com/michaeltmk/StandAlone_T-H_sensor)