

David Tang MBBS, MRCP, MSc

MSC HEALTHCARE ANALYTICS & MACHINE LEARNING • MEDICAL DOCTOR • IMPERIAL COLLEGE LONDON
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Summary

Languages Python • SQL • R • Git • Bash • \LaTeX • HTML/CSS/Js • C++
Analytics Apache Hadoop, Hive and Ambari • BigQuery • PySpark • Presto
Frameworks Tensorflow • Google Cloud Platform • Sklearn • Plotly • Geopandas • NLTK • SpaCy

Experience

Visa Europe

Paddington, London

DATA SCIENCE INTERN

May 2021 - Sept 2021

- Project: Creation of compliance assurance solution for UK returning international air passengers
- Developed working scalable product at national level - increasing number of flights captured by 35% by capturing transactions from cardholders across six continents
- Technologies: Apache Hive, Hadoop, Ambari, Presto, Geopandas, StatsModels

GOV.UK Data Labs

London

USER JOURNEY SEGMENTATION WITH LSTM AUTOENCODER

2021

- Deep learning and computational approach towards user segmentation within the business user space - covers over 300,000 unique pages and 3.5M users weekly
- Developed and demonstrated a proof of concept for user journey embeddings within GOV.UK for personalisation as part of collaboration with Imperial Data Science Society
- Technologies: BigQuery, Tensorflow, SpaCy, Pandas, Numpy, Plotly

Community Lead

[Voluntary] London

AICAMP, LONDON AI DEVELOPERS GROUP

Sept 2019 - Current

- Organized a live telecast by Dr. Andrew Ng (deeplearning.ai) to London and Europe, for >1000 participants
- Lead Google Cloud Platform Study Jams as a facilitator and Python coach

Dual Renal-Internal Medicine Registrar

Malaysia

VARIOUS TERTIARY HOSPITALS

2012 - 2018

- Lead training on 'Central Access for Hemodialysis', major complications rates dropped from 8% to <1%
- Founded online solution for renal department to store renal biopsy referrals, parathyroid OT list & tenckhoff waitlist. Covering 6 districts with total population of 1.2M
- Pioneered a semi-automated rostering system in Excel VBA - arranging rotations, cover duty, annual leave and fair distributions of on-calls for 9 different medical subspecialties

Education

Imperial College London

School of Public Health

MSC HEALTH DATA ANALYTICS AND MACHINE LEARNING

Oct 2020 - Oct 2021

- Deep learning on national-level, complex UK-Biobank data with over half a million participants for malignant melanoma prediction via multi-layer perceptron
- Recipient of the Imperial Award x4 - for recognition of personal development
- Course Representative - nominated for best Team Representation Network Award

Royal College of Physicians (UK)

Glasgow

MEMBERSHIP • RCP CODE 183388

Jul 2017

- Aced final part with total skill score of 163 out of maximum 172

Monash University

Melbourne, AU

BACHELORS OF MEDICINE AND SURGERY • DISTINCTION

2012

- Awarded John Desmond Prize in Occupational Medicine in 2010 & Dean's Book Prize in 2008