Michael. C. J. Kao
Curriculum Vitae

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New Zealand/Taiwan

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mkao006

Personal Summary

Highly skilled data scientist with hands-on knowledge of the latest statistic and machine learning techniques with a problem-solving mindset at the core.

Proficient in R and Python for analysis and data preparation. Seasoned in working with standard database and adept at scrapping unstructured data from the web.

Strong business acumen and proven records of using analytics to enhance business performance.

I love diving, in water and in data!

Software Skills

Languages	R, Python and shell
Packages	mlr, shiny, pandas, numpy, scipy, sciki-learn, scrapy, tensorflow, airflow and django
Database	SQL, PostGIS, Mongo
Other	Linux, Docker and Git

Education

2010 – 2012	**M.Sc. in Statistic** University of Auckland
2009 – 2010	**B.A. (1st Class Hons.) in Statistics** University of Auckland
2005 – 2009	**B.A. & B.Sc** University of Auckland

Work experience

November 2016 – July 2017
Deepblu Inc, Taiwan
Senior Data Scientist

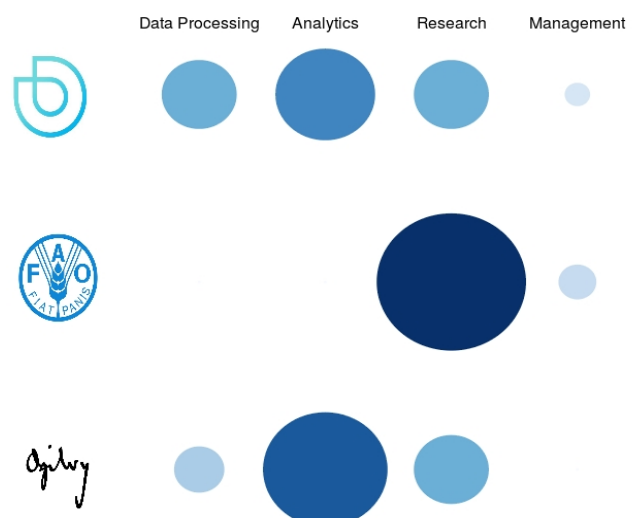Develop data capacity in all business function.

Laid the data pipeline and standards, recommendation of **acquisition and retention strategy** and building custom algorithms to **improved mobile app UX**.

October 2011 – October 2016
FAO of the United Nations, Italy
Lead Statistician

R ambassador and project technical leader.

Estimation of global supply and demand of food and building an AI program to **detect food price anomalies**.

June 2010 – November 2011
Ogilvy & Mather, New Zealand
Data Analyst

Analytical consultant delivering solutions to business problems.

Devised novel solutions to achieve goals from **increase return on media investment** to **provide statistical evidence for policy formulation**.

AWARDS & SCHOLARSHIPS

2011   **RSVP and Nexus Award for marketing insight**

2011   **Master of Science Faculty Award with Scholarship**

2010, 2011   **Senior Prize in Statistics**

SELECTED PROJECTS

2018   **Diamond Analysis**
Scrapped diamond data from James Allen to analyse and identify the best diamond to purchase for the engagement ring.

2017   **Dive Log Validation and Classification**
*Implemented the isolation forest to detect anomalies in dive logs such as dive computer failure, incorrect air mixture, and infeasible profile to **improve the soundness and safety of diving**.*

2016   **The Reading Machine (Github)**
*Automated forecasting of commodity price utilising information scrapped from web pages. Sentiment extraction and topic modeling of news article coupled with Recurrent Neural Network to forecast the commodity price. The purpose of the project is to **identify potential food crisis and provide lead time for reaction**.*

2013   **R package: FAOSTAT (CRAN)**
An R package providing seamless integration to the FAO Statistics database.

2011   **Project 'KARMA' (RSVP Award)**
*Forecasted demand and supply of teachers and analysed the labour force to provide insights on the reality of the teaching force. The RSVP and Nexus prize was awarded for **confirming that the teacher shortage was truly over and assisted in new policy formulation**.*

2011   **Project 'MOA'**
*The project estimated the effects of various advertising channel in order to assess the respective efficiency and effectiveness. The estimations were then employed to optimise the allocation of the marketing budget for a large retail banking client. The result was a **79% improvement in customer acquisition over the existing budget**.*

2011   **Campaign 'AND'**
*The project identified segments of individuals which are high achievers from students of economically deprived background. The uses of the PRIM algorithm **pinpoint a segment with a 70% completion rate as opposed to the pool average of 41%**. This resulted in improved utilisation of public funding.*

INTERESTS

SPORTS   Scuba diving, basketball, boxing and bouldering

Places I have visited