

KHAM MING FATT

Data Scientist, Former Mathematics Educator

Portfolio: <https://khammingfatt.github.io/>

Profile www.linkedin.com/in/ming-fatt-kham

An aspiring Data Analyst, my journey began as a Mathematics Educator, where I developed a profound appreciation and power of data. Motivated by this realisation, I delved into learning Python and Machine Learning through participating in the Data Science Immersive Course at General Assembly. Combining my passion for data with strong communication skills, I take pride in utilising data-driven insights to drive effective solutions for business problems.

Projects <https://github.com/khammingfatt>

Graduates, Data Science Immersive Course, General Assembly

- Built a prescriptive AI Squat Trainer that gives feedback to improve individual's squat form with 99% accuracy through Machine Learning with Computer Vision, OpenCV and Mediapipe
- Evaluate cost effectiveness and provide insights in fighting against West-Nile Virus in US with potential cost reduction of at least 60% through building a Machine Learning Predictive Model
- Develop a Text Analyzer Machine Learning Model with 93% accuracy through analysing two top comedies – Brooklyn's Nine Nine and The Big Bang Theory
- Built an Streamlit Application for HDB Resale Price Predictor with 89.1% accuracy with LinearRegression/Lasso/Ridge Model


Skills: Python | SQL | Tableau | Data Cleaning | Streamlit | Machine Learning | Data Scrapping | Natural Language Processing (NLP) |

Experience <https://www.tinyurl.com/mrkhammingfatt>

General Education Officer, Ministry of Education 2013 – 2023

- Hosted Student Leadership Investiture for a school of 700 students through managing internal and external stakeholders
- Led CCA to win a League Championship and awarded MOE Service Excellence Award (Platinum) through making Data-Driven Decisions
- Led talented students in attaining Gold Awards in International Mathematical Olympiad Competitions and awarded MOE Service Excellence Award (Gold) through nurturing students with Data
- Improved Co-Curricular attendance by 20% and awarded MOE Service Excellence Award (Silver) through using google sheets
- Planned and Organised Career Day for 200 students in course allocation through using Microsoft Office

Skills: Microsoft Office | Google Sheets | Power Point | Microsoft Excel | Pivot Table | Data Visualisation | Excel Formulae

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Key Skills

- Stakeholder Management and Communication Skills
 - Statistical Modeling and Statistical Analysis
 - Critical thinking & Problem Solving Skills
 - Independent Worker & Team Player
 - Dashboard with Data Visualisation and Modeling Skills
 - Microsoft Excel, Pivot Table and References
 - Regression, Classification and Natural Language Processing
 - Data Mining to extract Insights and Recommendations
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Detailed Skills

- ✓ Excel Manipulation through Pandas Packages
- ✓ Visualisation Plotting through Seaborn, Matplotlib and Tableau and PowerBI
- ✓ Distributions and Hypothesis Testing
- ✓ Predictive Regression through SciKit Learn
- ✓ Predictive Classification through KNeighbors and Naïve Bayes Models
- ✓ Text Processing through using Nltk, Gensim
- ✓ Clustering through using Kmeans and Cosine Similarity

Education

General Assembly • Data Science Immersive • 2023

**National Institute of Education • Post Graduate Diploma in Education •
Teaching in Mathematics 2013 – 2014**

Chartered Financial Institute • Passed CFA Level 1 • 2012

Society of Actuary • Passed Exam P and Exam FM • 2012

**National University of Singapore • Bachelor of Science (Applied
Mathematics) • 2008 – 2011**
