






# MUHAMMAD ZULFADHLI ISMAIL

## - Transitioning from Software Engineer to Data Scientist Role -

Recognized as a passionate learner with multi-tasking abilities, recently, completed and earned Google Advanced Data Analytics Professional Certification-a rigorous, hands-on program that covers the entire scope of the data analysis and data modeling process. Ready for entry-level data analytics professional profession after managing to complete real case study based on industrial scenario including exploring large datasets, applying data analysis techniques, and building models to extract insights. Also, this certification exposed me to the core of machine learning knowledge, predictive modeling, and statistics. Fluent in English, Japanese and had experienced immersing in a diverse and collaborative working environment to create an innovative project.

## CONTACT

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## SKILLS

- Python, R, SQL
- Data Science
- Data Cleaning
- Data Analysis
- Data Visualization
- Exploratory Data Analysis (EDA)
- A/B Testing / Hypothesis Testing
- Statistical Analysis
- Predictive Modelling
- Machine Learning
- Jupyter Notebook
- Regression Models
- Spreadsheet
- Tableau

## LICENSES & CERTIFICATIONS

**Google Advanced Data Analytics Professional Certificate**  
Jan 2024

**Google Data Analytics Professional Certificate**  
June 2022

**Google Analytics Certification**  
Feb 2024 – Feb 2025

## JOB EXPERIENCE AND DATA SCIENCE RELATED EXPERIENCE

### Senior Software Engineer

**Panasonic Appliances Air-Conditioning R&D Malaysia** - Shah Alam, Selangor, Malaysia

- 04/2019 - Current • Developed product specifications by working together with local and Japanese members by organizing collaborative meeting and discussion in Japanese language if necessary in order to identify potential risks and develop strategies to mitigate them, ensuring that the project stays on track
- Ensured that all software developed meets quality standards and is thoroughly tested before releasing by introducing automated system test to inspect products and services to comply with quality standards
- Implemented automation to maximize organizational resources and promote consistent service levels by developing mobile automation testing using Python and Appium to reduce the testing time by 40%
- Developed and maintained monitoring system using Python to monitor market situation and detect any downtime for further real-time analysis to reduce the unscheduled downtime by 30%.
- Identified ideas to improve system performance to meet customer needs by compiling comprehensive and accurate documentation or reports to deliver insightful analysis and made data-driven recommendations to support business strategy and commercial decision-making
- Ensured product to meet cybersecurity regulatory compliance particularly ETSI EN 303 645 and UK PSTI Act by leading and coordinating the activity between the developer team and regulation team.

### Google Advanced Data Analytics Professional Cert.

**Google - Coursera** - Online

- 08/2023 - 01/2024 • Completed 4 Data Analytics Projects: **New York Taxi and Limousine Commission, TikTok, Waze and Salifort Motors.**
- Used multiple regression to predict taxi fares, data that would be used as part of a suite of models to optimize revenue for the **New York Taxi and Limousine Commission** and its drivers
- Classification of **TikTok** videos: Used statsmodels and scikit-learn to predict whether videos presented claims or opinions to improve triaging process of videos for human review
- Classification of **Waze** data: Built decision tree, random forest, and XGBoost to predict Waze user churn

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## LANGUAGES

**Malay:** First Language

**English:** C2  
  
Proficient

**Japanese:** C1  
  
Advanced

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## ACCOMPLISHMENT

**TOEIC 2018**  
905

**Japanese-Language  
Proficiency Test (JLPT)**  
N2

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## AWARDS

**Shundo International  
Scholarship Foundation  
Program**  
April 2018 - March 2019

**Yayasan Pelajaran MARA  
(YPM) Scholarship  
Program**  
April 2015 - March 2017

- Classification of **Salifort Motors** data: Built either a logistic regression or a tree-based machine learning model to predict whether an employee will leave to improve employee retention rate
- Applied Python programming with Python packages such as numpy, Pandas, Scipy, seaborn, Matplotlib, statsmodels and scikit-learn during exploratory data analysis (EDA) including data cleaning, data visualization and A/B testing
- Demonstrated data visualization by using Tableau during EDA to uncover patterns including outliers detection
- Built statistical data models and demonstrated the implementation of Machine Learning models such as regression (linear, logistic), Naive Bayes, decision trees, random forest, AdaBoost, XGBoost including the hyperparameter tuning to find the best model for each project

### **Google Data Analytics Professional Certificate**

**Google - Coursera** - Online

- 08/2022 - 06/2023
- Completed **Cylistic bike-share** analysis case study by implementing basic data analysis process steps; **ask, prepare, process, analyze, share** and **act**.
  - Collected, sorted and filtered data by performing a scripting language such as performing simple SQL queries from Kaggle
  - Explored and analyzed datasets by doing simple data cleaning, sorting, filtering in spreadsheets
  - Demonstrated simple data analysis process by using R Studio including running scripts in R programming as well as using tidyverse package and creating data visualization on the platform
  - Created simple data visualization using spreadsheet by utilizing built-in functions such as pivot tables to gain initial data insights
  - Compiled and summarized all the findings and report into an executive summary document including R Markdown

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## EDUCATION

2019

### **Master of Science Systems Engineering and Science**

**Shibaura Institute of Technology** - Saitama, Japan

Studied the application of Machine Learning in daily life application such as predicting the heatstroke level in a certain area by analyzing the collected sensors data obtained from the pedestrians.

**Thesis Title:** *Map Generation to Detect Heat Stroke by Using Participatory Sensing Method*

### **Research Publications**

- M. Z. Ismail and M. Inoue, "Map Generation to Detect Heat Stroke by Using Participatory Sensing Data," 2018 International Conference on Electronics, Information, and Communication (ICEIC), Honolulu, HI, 2018, pp. 1-4.
- M. Z. Ismail, M. Inoue and T. Yokemura, "Data Preparation Method Using Machine Learning for Heat Stroke Monitoring System," The 13th SEATUC Symposium, Hanoi, Vietnam, 2019, pp. 1-6.

**CGPA:** 3.9

2017

### **Bachelor of Engineering Electronic Information Systems**

**Shibaura Institute of Technology** - Saitama, Japan

**Thesis Title:** *Climate Change Monitoring by Using Pedestrian Sensing*

2011

### **Sijil Pelajaran Malaysia (SPM)**

**SM Sains Rembau** - Rembau, Negeri Sembilan

**Result:** 6A+ 2A 1A-