

# Kew Jing Sheng

## Data Scientist

Passionate in solving challenges analytically using first principle model and analytically from data. Equipped with right skills in delivering analytical solutions, including AI, machine learning, coding and cloud knowledge. Intrinsically, I am built with characters like curiosity and focused in solving challenges.



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## WORKING EXPERIENCE

### Earth Data Scientist (Quantitative Analysis & Interpretation Geophysicist)

PETRONAS

Sept 2020 – Current

#### i. Offshore Sarawak Carbonate Reservoir Exploration

- Quantitative analysis and interpretation of subsurface data like well logs and seismic, like using relationship between features to understand lithology and fluid in subsurface. Performed seismic inversion that utilize Generalized Linear Inversion (GLI) to measure the best fit between observed seismic trace and model seismic trace that can be applied spatially across study area.

#### ii. Elastic Well Logs Prediction Research

- Developed wells health check analysis based on outliers, missing values and bad hole features to identify good quality well for modelling. Developed regression models using CatBoost and Neural Network to predict the missing well logs. Multiple metrics analysis are performed to studied the performance of models.

### Data Scientist

PETRONAS

July 2018 – Sept 2020

#### i. Sand Advisor System

- Development of end-to-end of Sand Advisor Machine Learning System for prediction of sand count, a pipeline from data ingestion to feature engineering and modelling is built on the system, with logging system and API built. Model performed involved supervised learning like XGBoost, CatBoost, Gradient Boosting and Random Forest, with unsupervised learning like K-Means and Gaussian Mixture on clustering of data.

#### iii. Piping Internal Corrosion Predictive System

- Built the predictive modelling of internal corrosion of piping of refinery plant using XGBoost & Random Forest model. To explain blackbox model, SHAP is performed to explain the model result. To understand relationship between features, hypothesis testing like ANOVA and Chi-Squared are performed. Web-scraping techniques are also performed to extract data from webs.

### Business Analyst

Juris Technologies Sdn Bhd

July 2017 – Feb 2018

#### i. Loan Origination System – OneCore

- Working as a tester on the loan origination system built, using SQL and JavaScript. Design SQL queries for extracting data into documents like function or procedure. Collecting user requirements from user and delivered the message to software engineer, using the Agile Methodology.

## EDUCATION

### Bachelor Technology (Honors) of Petroleum Geoscience

University Technology PETRONAS (UTP)

May 2012 – May 2017

3.64/4.0

### Online Digital Courses Completed

i.	The Complete SQL Bootcamp 2020: Go from Zero to Hero -----	Udemy	2020
ii.	Artificial Intelligence A-Z: Learn How to Build an AI -----	Udemy	2020
iii.	Machine Learning A-Z: Hands-On Python & R in Data Science -----	Udemy	2020
iv.	2020 Complete Python Bootcamp From Zero to Hero in Python -----	Udemy	2020
v.	Complete Guide to Creating COCO Datasets -----	Udemy	2020

## SKILLS

### Core Skills

- Quantitative Analysis
- Statistical Analysis
- Probability
- Data Visualization
- Hypothesis Testing
- Time Series Forecasting
- Machine Learning
- Deep Learning
- Python
- Object Oriented Programming (OOP)
- SQL
- Natural Language Processing (NLP)
- REST API
- HTML & Jinja2

### Generic Skills

- Linux
- Git
- Agile
- DevOps
- Cloud Computing
- Microsoft Power BI
- Microsoft Azure
- Microsoft Tools (Excel, PowerPoint, Words)
- AWS Services

## EXTERNAL PARTICIPATIONS

i.	AWS re:Invent	Loc: USA	2019
ii.	HSBC OpenLab Hackathon	Loc: MY	2019
iii.	Maxis IoT Challenge – Smart Cities Solution on Detecting Crimes	Loc: MY	2019
iv.	OpenHack Machine Learning	Loc: SG	2018

## HONORS & RECOGNITIONS

i.	AWS Deep Racer Challenge ----- [Top 16 Worldwide]	Loc: USA	2019
ii.	PETRONAS Group Digital Deep-Racer Challenge --- [1 <sup>st</sup> Place]	Loc: MY	2019
iii.	EAGE Earth-Hack Challenge ----- [Best Visual Award]	Loc: MY	2019
iv.	EAGE Field Development Challenge ----- [2 <sup>nd</sup> Runner Up]	Loc: PARIS	2017