



# Fadhil Affandi

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Curious and data driven problem solver with exceptional communication and leadership skills and the ability to adapt quickly to a fast paced, dynamic environment. Aspiring Data Scientist in a search for opportunities to grow both personally and professionally.

## EDUCATION

### Data Science Immersive General Assembly

04/2020 – 06/2020

#### Content

- Regressions
- Time Series
- Webscraping/API
- Natural Language Processing
- Binary and Multi-Class Classification
- Neural Networks

### Bachelor of Engineering (Materials Engineering)

Nanyang Technological University

08/2014 – 07/2018

#### Minor/Specialisation

- Business Studies
- Industrial Engineering

## WORK EXPERIENCE

### Coating Process Engineer II-VI Singapore Pte Ltd

06/2018 – 03/2020

#### Achievements/Tasks

- Improved product yield and regularly qualify the production of new optics
- Optimised process parameters in PVD techniques such as sublimation and electron beam deposition
- Eliminated a 12 year unresolved product defect through innovative heat flow derivation, analysing data collected from experimentation and determining correlations through observations
- Orchestrated multiple projects, overseeing and managing over 20 technicians

### Neighbourhood Police Officer Singapore Police Force

05/2012 – 03/2014

#### Achievements/Tasks

- Adapted to different kinds of emergencies and defuse both physical and verbal disputes daily
- Made many critical decisions under high pressure situations
- Performed security detail and attended to emergency calls and reports of crime

## SKILLS

Python

SQL

Machine Learning

Deep Learning

Spark

Tableau

Pandas

Numpy

Scikit-Learn

Tensorflow

Matplotlib

Statsmodel

Seaborn

Flask

JMP

## DATA SCIENCE PROJECTS

### Sydney Rainfall Predictions

- Using 10 years of Australia's rainfall and weather data to create regression models with a myriad of time series machine learning and deep learning techniques
- Cleaned, imputed and separated data by their respective cities
- Compared the efficacy of SARIMAX, Facebook's Prophet and Gated Recurrent Units in their ability to predict the daily precipitation values of Sydney as accurately as possible
- Tools Utilised: Python, Numpy, Pandas, Scikit-Learn, Tensorflow, Machine Learning, Deep Learning, Statsmodel

### West Nile Virus Predictions

- Given sporadic dataset of weather, repellent spray and the presence of West Nile Virus at locations within Chicago
- Thoroughly cleaned and analysed data, and engineered new features incorporating spatial information
- Compared the balance between accuracies and sensitivities to select the best binary classifier amongst various machine learning models
- Tools Utilised: Python, Numpy, Pandas, Scikit-Learn, Regex, Imblearn, Machine Learning

## ACHIEVEMENTS

### Asia Open Cheerleading Championships - Gold (11/2016)

Represented Singapore in International Cheerleading Competition held in Korea

## SOFT SKILLS

Problem-Solving

Innovative

Creativity

Teamwork

Communication

Critical-Thinking

Interpersonal Skills

Adaptability

Leadership