**Alfredo Effendy**

alfredo.stats@gmail.com || +1 (949) 302-3803 || [linkedin.com/in/alfredo-effendy/](https://www.linkedin.com/in/alfredo-effendy/)

**EXECUTIVE SUMMARY**

Data Scientist with 3+ years of experience analyzing, interpreting, and processing large datasets using Python, R, and MySQL. Experienced in implementing machine learning algorithms for predictive analysis and statistical modeling for big data analysis. Data and numbers enthusiast with high curiosity in nature.

**SKILLS & KNOWLEDGE**

**Software:** Python (NumPy, Pandas, Scikit-learn, Keras, TensorFlow), C++, MySQL, R, Tableau, MS Office

**Data Skills:** Big Data Analysis, Data Mining, Data Visualization, Data Processing/Manipulation, Data Structure, Machine Learning Algorithms, Statistical Analysis & Modeling, Analysis of Algorithm

**EDUCATION**

**M.S., Applied Mathematics and Statistics (Emphasis on Big Data & Machine Learning)** January 2020

University of Notre Dame GPA: 3.9

**B.S., Mathematics, B.S., Chemical Engineering, B.A., Quantitative Economics** June 2018

University of California, IrvineGPA: 3.6

**WORK EXPERIENCE**

**Machine Learning Researcher, University of Notre Dame** July 2018 – January 2020

* Implemented predictive analysis using deep learning on handwritten digit dataset and obtained 99% accuracy.
* Applied information theory for unsupervised clustering on handwritten digit dataset and got 97% accuracy.
* Utilized unsupervised deep embedded clustering on handwritten digit dataset to obtain 85% accuracy.

**Statistics Researcher, University of California Irvine**June 2016 – June 2018

* Used machine learning techniques to do predictive analysis on minimum wages for women and children.
* Performed data cleaning using MySQL and Python Pandas library on missing and invalid data.
* Generated panel data using Monte Carlo simulation used for regression analysis and statistical inference.
* Conducted data analysis and visualization using ggplot2 on R for gene expressions dataset.

**LEADERSHIP EXPERIENCE**

**Team Leader, Kaggle Machine Learning Competition**January 2018 – March 2018

* Created an ensemble using machine learning algorithms to predict rainfall using cloud temperature dataset.
* Led the team in achieving top 5% result in the leaderboard with 81% accuracy (<1% from the top result).

**Founder and President, Indonesian Students at University of California Irvine**  June 2014 – June 2017

* Initiated first ever Indonesian student association in UCI and spread out the awareness of Indonesian culture.

**AWARDS & AFFILITIONS**

**Awards:** Order of Merits (Awarded to top 2% of undergraduates who best exemplify a commitment to academic distinction, leadership and service to the school, campus and community), Gold medal on Kangaroo International Mathematics Competition, Silver medal on ICAS International Mathematics Competition

**Affiliations:** Pi Mu Epsilon Mathematics Honors Society, Tau Beta Pi Engineering Honors Society