

Elijah Justin Medina

DATA SCIENTIST

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A researcher and a scientist, Elijah has honed his analytical and problem-solving skills along with his curiosity to create data-driven solutions and extract valuable insights for wide-ranging business applications.

Education

Asian Institute of Management

Makati, Philippines

M.S. IN DATA SCIENCE, *with distinction*

Mar 2019 - Jun 2020

- Built a decision support tool for predicting healthcare utilization to optimize resource planning and provide better health outcomes
- Collaborated with different teams to implement several projects for diverse topics including network analysis, big data analysis, data mining and wrangling, machine learning, and web application leading to two public presentations and two web application deployment
- Underwent a holistic learning experience comprised of both technical courses like machine learning and business courses like human behavior in organizations, negotiations, and design thinking

University of the Philippines Diliman

Quezon City, Philippines

B.S. IN APPLIED PHYSICS (INSTRUMENTATION), *cum laude*

Jun 2013 - Jun 2018

Skills

Programming

Python, SQL, Bash, HTML, CSS, JavaScript, LaTeX, Scilab, Arduino

Machine Learning

Keras, TensorFlow, scikit-learn, NLTK, gensim, spaCy, H2O.ai

Big Data and Cloud Computing

Dask, PySpark, Amazon EMR

Network Science

NetworkX, Gephi

Web Scraping

Selenium, BeautifulSoup, requests

Data Engineering

Amazon Services (EC2, RDS, Redshift, DynamoDB (NoSQL), S3, Glue), Apache Airflow

Web Applications and Deployment

Dash, Flask, nginx

Experience

Sentinellium

Philippines

DATA SCIENTIST, VOLUNTARY (PART-TIME)

Sept 2020 - Present

- Build a predictive model for an early warning system for developing public health concerns
- Extract tweets related to pandemic and perform sentiment analysis to gauge activity for different localities
- Perform network analysis on roads in Metro Manila and identify features that can be used for risk prediction

Asian Institute of Management

Makati, Philippines

DATA SCIENTIST, CAPSTONE PROJECT

Dec 2019 - Jun 2020

- Developed an application that processes the client's data, builds a model, and creates a forecast as a decision support tool for healthcare utilization
- Conducted comprehensive descriptive analytics to create insights and prepare for building the machine learning models
- Communicated technical terms and conveyed business value and insights to business stakeholders which led to focused development

Complexity Science Group, Instrumentation Physics Laboratory (Dr. Johnrob Bantang)

Quezon City, Philippines

UNDERGRADUATE RESEARCHER

Oct 2015 - June 2018

- Investigated the relationship and structure of different texts using network science analysis leading to three publications and presentations to local conferences and an undergraduate thesis

Honors & Awards

2020 **1st Place**, Bayanihan@AIM Hackathon Track 2

Makati, Philippines

2018-2019 **Member**, Phi Kappa Phi Honor Society

Quezon City, Philippines

2015-2018 **Scholar**, Angelo King Foundation

Quezon City, Philippines

Local Publications

Interaction of word co-occurrence networks through identical words

Puerto Princesa, Philippines

POSTER PRESENTATION FOR 36TH SAMAHANG PISIKA NG PILIPINAS PHYSICS CONFERENCE

2018

Structural changes during a complex network interaction

Cebu City, Philippines

POSTER PRESENTATION FOR 35TH SAMAHANG PISIKA NG PILIPINAS PHYSICS CONFERENCE

2017

Word network structure in papal documents

Iloilo City, Philippines

ORAL PRESENTATION FOR 34TH SAMAHANG PISIKA NG PILIPINAS PHYSICS CONFERENCE

2016