Muhammad Fauzan Ishlah

Fresh Graduate | Experienced with Python and Machine Learning

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Education

Academic Background

Universitas Indonesia   *Depok*

Bachelor of Science in Physics   *Aug. 2017 – Aug. 2021*

- Specialization in Theoritical Nuclear-Particle Physics and Astrophysics
- Undergraduate thesis: *"Strong Deflection Angle and Lensing of Ayon-Beato-Garcia's Blackhole on Nonlinear Electrodynamics"*

Non-formal Education

Institut Teknologi Bandung   *Bandung*

Summer School - International Virtual Course on Astrostatistics and Machine Learning.   *Aug. 2021*

- Activities: discussion and workshop with handson
- Statistics topics: Regression, Bayesian Inference, MCMC, Time Series Analysis
- Machine learning topics: Supervised and Unsupervised
- Clustering: K-means, Expectation-Maximization Method, Hierarchical Clustering, Convex Clustering

Courses and Certificates

SQL Masterclass: SQL for Data Analytics   *Udemy*

by Start-Tech Academy   *Oct. 2021*

Data Analysis with Python   *freeCodeCamp.org*

by freeCodeCamp   *Sep. 2021*

Technical Skills

Programming : Python, Matlab, Fortran, C++, VBA, JavaScript, SQL, LaTeX
Frameworks : Scikit-Learn, Tensorflow, Keras, Pytorch, Astropy, Sunpy, Sqlite3
DBMS : MySQL, PostgreSQL
Tools : Ms. Excel, Tableau, PowerBI
Language : Indonesia (native), English (intermediate), Japanese (elementary)

Projects

Python Program for Data Analysis

- Mean-Variance-Standard Deviation Calculator
- Demographic Data Analyzer
- Medical Data Visualizer
- Page View Time Series Visualizer
- Sea Level Predictor

Experience

Laboratory

Advanced Physics Laboratory (Dept. Physics - Universitas Indonesia)   *Depok*

Lab. Assistant   *Feb. 2020 - July 2020*

- Responsible for radioactive decay and half-life experiment
- Helps undergraduate students conduct experiment
- Evaluate students' performance and analysis result

Part-time

Protozoneplus *Depok*

(Math and Physics) Tutor *Feb. 2020 - now*

- Tutoring 1 on 1 for SMA and SMP students with variaty curriculum
- Giving lessons to students to prepare PTS, PAS, and SBMPTN

(Self-employed) *Tangerang*

(Math and Physics) Tutor *Jan. 2018 - Apr. 2019*

- Tutoring SD - SMP students to prepare PTS, PAS, and UN

Volunteer

Pesta Rakyat Fisika UI (HMD Fisika UI) *Depok*

Staff - Science Project *Apr. 2018 - Nov. 2018*

- Making rundown on presentation day
- Recap participants' score

Achievements

National Science Olympiad *Sukabumi*

Subject : Astronomy *2015-2016*

- 1st Winner (2015), 3rd Winner (2016)

Astara Ganesha *Bandung*

High School Astronomy Olympiad *Oct. 2015*

- Semifinalist

Interests

Research   Cosmology, Astrophysics, Gravitational Lensing, Gravitational Wave

Personal   Anime, Manga, Movie, Scifi, Researching, Programming