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

Skills

Language   : Indonesia (native), English (intermediate), Japanese (elementary)

Programming   : Python, Matlab, Fortran, C++, JavaScript, MySQL, LaTeX

Frameworks   : Scikit-Learn, Tensorflow, Keras, Pytorch, Astropy, Sunpy, Sqlite3

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

Certifications

Data Analysis with Python

freeCodeCamp

PROJECTS:

Sep. 2021

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

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