

Muhammad Fauzan Ishlah

FRESH GRADUATE | EXPERIENCED WITH PYTHON AND MACHINE LEARNING

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Projects

Galaxy-Quasar Classification

- Conduct some data analysis to select some features that will be used.
- Created a KNN-Classifer using Scikit-learn to classify observed object is a Galaxy or Quasar.
- Created a script to tuning the parameters

Galaxy Redshift Estimation

- Conduct EDA to select features that will be used to predict redshift.
- Built and evaluate a neural network with 2 hidden layers using Keras.

Hololive Talents Youtube Analysis

- Gathered data from talent's youtube channel using Youtube API.
- Stored the data into Google BigQuery.
- Created a dashboard using Python with Dash library and deploy it on Heroku server.

Python Program for Data Analysis

REPLIT.COM/@FAUZANISHLAH

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

Education

ACADEMIC BACKGROUND

Universitas Indonesia

BACHELOR OF SCIENCE IN PHYSICS

Depok

Aug. 2017 – Aug. 2021

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

SUPPLEMENTARY EDUCATION/SUMMER SCHOOL

Institut Teknologi Bandung

Bandung

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

Technical Skills

Programming : Python, Matlab, Fortran, C++, VBA, JavaScript, SQL, \LaTeX

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

DBMS : MySQL, PostgreSQL, BigQuery

Tools : Google Data Studio, Tableau, PowerBI

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

Courses and Certificates

Intermediate Machine Learning

BY ALEXIS COOK (KAGGLE)

Kaggle

Nov. 2021

SQL Masterclass: SQL for Data Analytics

BY START-TECH ACADEMY

Udemy

Oct. 2021

Data Analysis with Python

BY FREECODECAMP

freeCodeCamp.org

Sep. 2021

Experience

LABORATORY

Advanced Physics Laboratory (Dept. Physics - Universitas Indonesia)

LAB. ASSISTANT

Depok

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

(MATH AND PHYSICS) TUTOR

Depok

Feb. 2020 - now

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

(Self-employed)

(MATH AND PHYSICS) TUTOR

Tangerang

Jan. 2018 - Apr. 2019

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

VOLUNTEER

Pesta Rakyat Fisika UI (HMD Fisika UI)

STAFF - SCIENCE PROJECT

Depok

Apr. 2018 - Nov. 2018

- Making rundown on presentation day
- Recap participants' score

Achievements

National Science Olympiad

SUBJECT : ASTRONOMY

Sukabumi

2015-2016

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

Astara Ganesha

HIGH SCHOOL ASTRONOMY OLYMPIAD

Bandung

Oct. 2015

- Semifinalist

Interests

Research Cosmology, Astrophysics, Gravitational Lensing, Gravitational Wave

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