Muhammad Fauzan Ishlah

RESEARCH ASSISTANT

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Projects

Hololive Youtube Analysis - Web Dashboard

GITHUB.COM/FAUZANISHLAH

- Gathered data from Hololive talents' youtube channel using Youtube API.
- Stored the data into Google BigQuery and querying to do some analysis
- Created a dashboard using Python with Dash library and deploy it on cloud platform Heroku server.

Galaxy-Quasar Classification

- Conduct some data analysis to select some features that will be used.
- Created a KNN-Classifier 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.

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

Technical Skills

Programming	: Python, Matlab, Fortran, C++, VBA, JavaScript, SQL, LaTeX
Frameworks	: Scikit-Learn, Tensorflow, Keras, Pytorch
DBMS	: MySQL, PostgreSQL, BigQuery
Tools	: Google Data Studio, Tableau, PowerBI
Language	: Indonesia (native), English (intermediate), Japanese (elementary)

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"*

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

Courses and Certificates

Intermediate Machine Learning   *Kaggle*
by Alexis Cook (Kaggle)   *Nov. 2021*

SQL Masterclass: SQL for Data Analytics   *Udemy*
by Start-Tech Academy   *Oct. 2021*

Data Analysis with Python   *freeCodeCamp.org*
by freeCodeCamp   *Sep. 2021*

Experience

Laboratory

Universitas Indonesia   *Depok*
Research Assistant   *Sep. 2021 - now*

- Studied about black hole and gravitational lensing
- Report the studies result
- Writed a journal paper

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, Vtuber, Movie, Scifi, Researching, Programming, Big Data