

Muhammad Ravi Shulthan Habibi

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SUMMARY

I am a Fresh Graduate Computer Science at University of Indonesia. Have a big interest in the Artificial Intelligence (AI) field including Machine Learning, Deep Learning, Natural Language Processing, Data Mining, etc. Capable of implementing various artificial intelligence (or machine learning) algorithms, with adequate knowledge of the Python language and well-known artificial intelligence libraries, such as: Scikit-learn, OpenCV, Tensorflow, Pytorch, Transformers, HuggingFace and so on. Experienced in working on artificial intelligence projects in lots of coursework. Currently seeking opportunities in the artificial intelligence field to further broaden knowledge related to this field.

EDUCATION

Universitas Indonesia

Bachelor of Computer Science

Jakarta, Indonesia

September 2019 - July 2023

Major in Computer Science;

Cumulative GPA: 3.51 / 4.00 (**Cum Laude**)

Relevant Coursework to Artificial Intelligence: Data Structure & Algorithms; Linear Algebra; Calculus 1; Calculus 2; Discrete Mathematics 1; Discrete Mathematics 2; Statistics & Probability; Language & Automata Theory; Artificial Intelligence & Basic Data Science; Numerical Analysis; Machine Learning; Data Mining; Image Processing; Information Retrieval.

Sekolah Menengah Atas Negeri 112 Jakarta Barat

Major in Natural Sciences;

Jakarta, Indonesia

September 2016 - May 2019

National Exam Results: 34.85 / 40.00 (Top 5 of Generation)

EXPERIENCES

Universitas Indonesia

Teaching Assistant

Jakarta, Indonesia

January 2023 - Present

ORGANIZATION ACADEMICAL ACTIVITIES

Google Developer Group Jakarta (GDG - Jakarta)

Member

Jakarta, Indonesia

Oct 2022 – Present

UNIVERSITY PROJECTS

CREDIT SCORING

Oct 2021 - Dec 2021

- Develop a credit scoring model in the form of a scorecard from the Lending Club data.
- Create a classification model with a scorecard when performing Weight of Evidence (WoE) calculations for each group on the existing variables.
- Develop a clustering model from the Lending Club data.

COMMAND DETECTION

Mar 2022 - June 2022

- Detects what command was invoked and the arguments from ATIS & SNIPS datasets.
- Doing exploratory data analysis (EDA), preprocessing, modeling, evaluation & analysis.
- Using/implementing a well-known artificial neural network model, namely: LSTM.

MEDICAL TEXT CLASSIFICATION

Mar 2022 - June 2022

- Develop a multi-label text classification model for medical inquiry documents.
- Doing exploratory data analysis (EDA), preprocessing, modeling, evaluation & analysis.
- Training models with feature engineering and gradient boosting algorithms.

FORECASTING SUGAR PRICE

Mar 2022 - June 2022

- Create a model to predict sugar price changes in a month by utilizing Sugar Price data.
- Doing scrape websites, exploratory data analysis (EDA), preprocessing, modeling, evaluation & analysis.
- Using/implementing a well-known time series forecasting models/algorithms, namely: ARMA, ARIMA & SARIMA.

LU FACTORIZATION & BEZIER CURVE

Mar 2022 - June 2022

- Implement the LU factorization technique on a 2x2 block matrix and analyze the result.
- Perform calculations and analyzes related to the Bezier curve.
- Factorization is done by modifying it with pivoting, and depicting capital letters using a Bezier curve.

IMAGE CLASSIFICATION ON PET DATASET

Oct 2022 - Dec 2022

- Develop an image classification model for PET dataset.
- Doing exploratory data analysis (EDA), preprocessing, modeling (using model stacking), evaluation & analysis for handcrafted features (traditional classification approaches).
- Doing preprocessing, modeling layers (using ResNet & MobileNet), fine tuning for machine generated features (deep learning approaches).

MEDICAL INFORMATION RETRIEVAL

Oct 2022 - Dec 2022

- Develop an information retrieval for medical dataset.
- Doing the retrieval with inverted index, boolean retrieval, ranked retrieval, learning-to-rank algorithms.
- Doing many experiments like: trying to mix all the models' future research purposes.

SOCIAL ACTIVITIES

Al-Hikmah Mosque Youth Association

Member; Academic Manager For TPA; Secretary For PHBI, Eid al-Fitr, Eid al-Adha

Jakarta, Indonesia

Mar 2013 – Present

ADDITIONAL

Technical Skills:

- Programming: Python, Java, Jupyter, Javascript, SQL, etc.
- Framework/Library: Django, DjangoREST, Flask, NodeJS, Express, SpringBoot, Scikit-Learn, OpenCV, Tensorflow, Pytorch, etc.
- Other: Docker, PostgreSQL, MySQL, MongoDB, Google Cloud Storage, Google Cloud Compute Engine, Google Kubernetes Engine, Amazon Web Service EC2, Amazon Web Service RDS, etc.

Languages: Fluent in Bahasa; Conversational Proficiency in English.

Courses That Have Been Passed (In My Bachelor's Degree): Programming Basics 1; Basic Physics; Discrete Mathematics 1; Programming Basics 2; Calculus 1; Discrete Mathematics 2; Introduction to Digital Systems; Linear Algebra; Calculus 2; Introduction to Computer Organization; Web Design & Programming; Statistics & Probability; Data Structures & Algorithms; Database; Advanced Programming; Interaction System; Operating System; Language & Automata Theory; Algorithm Design & Analysis; Computer Network; Artificial Intelligence & Basic Data Science; Research Methodology and Scientific Writing; Software Engineering; Numerical Analysis; Advanced Database; Cryptography & Information

Security; Machine Learning; Data Mining; Software Project; Cloud Computing; Computers & Society; Computer Assisted Teaching; Big Data Management; Image Processing; Information Retrieval, Final Project That Related To NLP; Islamic Philosophy; Islam in Southeast Asia; Diaspora and Arab Cultural Identity; History of Modern Turkey.

Academic Contest Experiences:

- **National Science Olympiad 2011:** Passed the National Science Olympiad (OSN) competition in the field of Natural Sciences (IPA) in the 2011 batch selection, Public Elementary School of Jelambar 06 Pagi, Jelambar ward, Grogol Petamburan sub-district, and West Jakarta regency/city. This year, I made it through to the district/city level selection of West Jakarta.
- **National Science Olympiad 2012:** Passed the National Science Olympiad (OSN) competition in the field of Natural Sciences (IPA) in the 2012 batch selection, Public Elementary School of Jelambar 06 Pagi, Jelambar ward, Grogol Petamburan sub-district, West Jakarta regency/city and DKI Jakarta province. This year, I made it through to the provincial selection of DKI Jakarta.

Event Experiences:

- **HacktoberFest 2022:** This event aims to spread open-source programs, this event can only be completed by completing a minimum of 4 pull requests on the open-source GitHub repository that are accepted by the maintainer on an open-source code.
- **JuaraGCP Season 8:** This event is organized by Google Indonesia, this event can only be completed by completing a minimum of 14 courses related to the Google Cloud Platform.
- **Scholarship from Dicoding:** This event is organized by Dicoding Indonesia, this event requires us to complete at least five courses, namely: DevOps, Computer Network, AWS Cloud Essentials, JavaScript, and Back-End Implementation for Development.