SHEFIYYAH AURELLIA WAHYUDI

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EXECUTIVE SUMMARY

I am an undergraduate student of Computer Science at UIN Syarif Hidayatullah Jakarta. I am very interested in machine learning and Sofware development. In addition, I am currently learning Python, Tensorflow, html, css, javascript and looking for opportunities to improve my hard and soft skills and learn personally and professionally.

EDUCATION

UIN Syarif Hidayatullah Jakarta
Informatics *august 2021 - present*
Cummulative GPA: 3.77/4.0

Related Coursed

- Database System(Score: 84/100)
- Elementary Statistics(Score: 89/100)
- Data Structures and Algorithms (Score: 89/100)
- System Analysis and Design (Score: 82/100)

EXPERIENCE

Member of GDSC UIN Jakarta *Remotely*
Machine Learning Class *Feb 2024 – present*

- Comprehending the application and significance of One hot encoding for categorical data
- Grasping the utilization and significance of Feature engineering in data analysis
- Embracing the use and purpose of imputation such as handling missing values, malformed data, misspellings, etc.

Dicoding Indonesia *Remotely*
Machine Learning Operations (MLOps) *Feb 2024 – Feb 2024*

- Constructing data processing elements within a machine learning pipeline utilizing TFX
- Building model development and validation elements within the machine learning pipeline using TFX
- Performed development and operation of machine learning systems using cloud computing to Deploy machine learning models using Docker and railway

Dicoding Indonesia *Remotely*
Machine Learning Terapan *Jan 2024 – Feb 2024*

- Applying k-Nearest Neighbor, Random Forest, and AdaBoost algorithms and their application to predictive analytics cases.
- Understanding how to model sentiment analysis using Deep Learning and Support Vector Machine techniques.
- Creating a KNN machine learning model for diabetes prediction
- Developed a machine learning recommendation system for 'Yogyakarta City Tourism Destination' utilizing Collaborative Filtering model. From this process, the final error value is about 0.3339 and the error in the validation data is 0.3560.

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka *Remotely*
Machine Learning Cohort *August 2023 – Jan 2024*

- Understanding Machine Learning, supervised learning involved Regression and Classification and also Unsupervised Learning & ANN.
- Practical deploy the model used tensorflow.js to image classification, converting models to JSON format and used transfer learning with pre-trained models.
- Used Python to Interact with the Operating System like reading and writing csv files, how to using qwiklab. And also used Git and Github.
- Applying the concept of fine tuning to create a machine learning English score prediction model and create a prediction model for the capstone project.

- Bangkit Academy graduate with Final Score: 91.32/100

PROJECT

Artificial neural network model used to predict diabetes *Feb 2024 - Feb 2024*

- Identify the problem presented and offer a solution for machine learning
- Convert categorical data into the form of one-hot encoding
- Using three Dense layers, ReLU activation, and sigmoid activation at the output layer, and using Adam's optimizer, binary crossentropy as the loss function, and binary accuracy as the evaluation metric.
- The metrics used in the model are AUC, Precision, Recall, BinaryAccuracy, ExampleCount, and ExampleCount.
- Produced a binary_accuracy of 97.15% and val_binary_acuracy of 97.18%, and a loss of 0.08.
- Using one of the as a service platforms, namely railway
- Monitoring in this system is done using prometheus. In this system, it only displays that if the request process is successful, it is indicated by ok

Mental Health Prediction from Comments *Feb 2024 - Feb 2024*

- Analyzed data to find key pain points in machine learning algorithm; proposed and implemented algorithmic adjustments.
- Used Tensorflow Extended to perform tensorflow serving
- Performing Processing Methods Among them, Data ingestion, Making Data Validation Stages, Making Data Preprocessing Stages, Model Development, Making Model Analysis and Validation Stages
- Established embedding model architecture
- The model evaluation obtained is AUC of 95.1%, then example_count 5579, with BinaryAccuracy 88.9%, and loss of 55%. For False Negatives 258, False Positive 361, True Negative 2417 and True Positive 2543.
- Used Docker to deploy machine learning models

Yogyakarta City Tourism Destination Recommendation System *Jan 2024 - Feb 2024*

- Define business comprehension, problem statement, and project objectives
- Employing Univariate Exploratory Data Analysis to explore and gain insights into the data
- Handle missing values and unnecessary columns in the destination table
- Displays a graph of tourist destinations that are included in the top 10 most visited using value count and categories of tourist attractions with the most to the least number of visitors.
- Implementing Model Development with Collaborative Filtering

Diabetes Prediction using K-Nearest Neighbors (KNN) Algorithm *Jan 2024 - Jan 2024*

- Employing multivariate analysis methods for data exploration
- Addressing missing values, dividing datasets using the train_test_split function from the sklearn library, and standardizing machine learning algorithms.
- Employing the KNN (K-Nearest Neighbors) algorithm resulting in an MSE train value of 0.000134 and MSE test of 0.000141, indicating proficient performance of the KNN model on both training and testing datasets.

ADDITIONAL

Technical Skills: Intermediate in Python, Docker, Railway, SQL, Excel, R Programming Language, ML Pipeline, html, css, laravel.
Languages: Intermediate English; Conversational Proficiency in Indonesia.
Certifications & Training: Tensorflow Developer Certificate, Machine learning cohort course at Bangkit Academy, Google Data Analytics certified, Dicoding Academy course(Machine Learning Terapan, Belajar Dasar Git dengan GitHub, Machine Learning Operations (MLOps), and Belajar Analisis Data dengan Python).