

Muhamad Ilyas Haikal

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A passionate data enthusiast with a strong engineering background, demonstrated proficiency in SQL, Python, R, and JavaScript for data exploration and analysis. Student with well-developed analytical skills, ability to work in a team and in fast-paced environments, and good at research which proved by creating several research during college. I am looking forward to challenge myself.

EDUCATION

UNIVERSITAS PEMBANGUNAN NASIONAL VETERAN JAKARTA

Undergraduate Student Major in Electrical Engineering

Final Year Student

Cumulative GPA: 3.75/4.0

Relevant Coursework: Machine Learning for Signal Processing, IoT and Sensor Data, Embedded System and Data Integration, Cybersecurity

Jakarta, Indonesia

Aug 2020 - Present

WORK EXPERIENCE

CODR (PT KODE INOVASI TEKNOLOGI)

Nov 2022 – Jan 2023

Data Science Intern

- Created a Marketing Mix Model using machine learning to increase the number of prospective customers and achieved a 3,453 increase in CODR users in 45 days.
- Implemented machine learning model (k-Means, k-modes, and k-prototypes) for clustering of customer data to determine potential leads.
- Managed ETL pipelines using Azure Databricks and Data Factory.
- Utilized Microsoft Azure ML Studio and Alteryx to automate machine learning workflows.

PROJECT EXPERIENCE

Customer Churn Prediction [[CustomerChurnPrediction](#)]

July 2023

- Developed and evaluated three cutting-edge machine learning models for customer churn prediction: Logistic Regression, Decision Tree Classifier, and Gradient Boosting Classifier.
- Achieved an impressive accuracy rate of 85% on test data by optimizing the Logistic Regression model through oversampling (SMOTE) and fine-tuning hyperparameters.
- Enabled proactive risk mitigation strategies by identifying customers at risk of churning, which aided in retention efforts.

Finance and Risk Analytics [[Finance-and-Risk-Analytics-in-Banking](#)]

June 2023

- Led an insightful case study that leveraged exploratory data analysis (EDA) to provide valuable insights into risk analytics within the banking and financial sector.
- Uncovered a significant finding that 90% of previously cancelled clients had successfully repaid their loans, highlighting the potential for the bank to avoid substantial losses by retaining these clients.
- Demonstrated the substantial revenue opportunity by highlighting an 88% conversion rate of previously rejected loan applicants into paying clients, suggesting that the bank could have generated additional revenue through loan approvals.

Loan Prediction [[LoanPrediction](#)]

Jan 2023

- Led the development of a robust classification model that was meticulously designed to predict potential loan defaulters with a high degree of accuracy.
- Successfully trained the model on a diverse dataset of loan applications, achieving an impressive accuracy rate of 88%.
- Empowered the bank with valuable insights and recommendations for enhancing the loan approval process, thereby contributing to more informed decision-making.

ORGANIZATIONAL AND VOLUNTEER EXPERIENCE

Algoritma Data Science School

Campus Ambassador

Mar 2023 – Present

- Grew awareness of Algorithm Training among university students and alumni by 15% by promoting it through a variety of channels, including online and offline events, social media posts, and word-of-mouth marketing.
- Worked Closely with the Algorithm support team to organize events on campus and distribute marketing materials to the public.

Euforia.id

Vice President

Des 2021 – Jul 2022

- Led the development and implementation of all programs by Euforia.id, including designing programs (Edugive, Eduscholarship, Edutips, Edusource, etc.) and distributing over 50 SBMPTN books through the Edugive program, which resulted in a 20% increase in the number of users of Euforia.id's platform.

Head of Academics

Jul 2021 – Des 2021

- Provided input into the development of medium-term and long-term academic policies for the growth of Euforia.id by evaluating, synchronizing, and improving policies to support innovation implementation.
- Prepared and submitted a report on academic assignments to the Vice President.
- Contributed to the development of new academic programs, such as the Edugive and Eduscholarship programs, which resulted in a 10% increase in the number of students enrolled in Euforia.id's academic programs.

ACHIEVEMENTS

- **1st Winner in Store Sales – Time Series Forecasting 2023**
Held by Kaggle
- **2nd Winner in JPX Tokyo Stock Exchange Prediction 2022**
Held by Japan Exchange Group (JEG)
- **2nd Winner in Finacial Modeling Competition 2020**
Held by Xiamen International Bank China
- **3rd Winner in Price Match Guarantee 2022**
Held by Shopee
- **5th Place in H&M Personalized Fashion Recommendations 2022**
Held by H&M Group
- **Awardee Iykra Data Engineering Fellowship 2023**
Selected from thousands of applicants from Indonesia
- **Awardee Supertype Fellowship 2023**
Selected from hundreds of applicants from around the world
- **Awardee Algoritma Data Science School Scholarship 2023**
Selected from thousands of applicants from Indonesia
- **Awardee Udacity Data Science Nanodegree Scholarship 2022**
Selected from tens of thousands of applicants from around the world
- **Awardee BCA Finance Scholarship 2020**
Selected from thousands of applicants from Indonesia

SKILLS

Python, R, SQL, NumPy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch, Matplotlib, Seaborn, Plotly, Tableau, Power BI, Data Studio, Flask, Exploratory Data Analysis (EDA), Data Cleaning, Feature Engineering, Data Modeling, Statistical Analysis, Hadoop, Spark, MySQL, PostgreSQL, Git, Jupyter, Metabase, Airflow, Communication, Leadership, Interpersonal, EF Standard English Test 83/100 (C2 Proficient)