

DICKY ARYANTO

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Data scientist who enjoys studying developments in economics, business, and AI. I am passionate about exploring and learning new things to create artificial intelligence that can assist society in making informed decisions.

WORKING EXPERIENCE

Data Analyst and Secretary, UD RIO July 2022 - Present

- Customer Order Management**
Implemented a system integrating POS cashier and Trello using Python programming language. When input is made at the cashier, corresponding cards are created in Trello with automatic notifications sent to the crew handling the orders. This system aids crew members by providing deadline notifications for orders and assists managers in organizing their teams to maintain productivity.
- Cash Security Management**
Developed a system integrated with Python and Google Spreadsheets. At the end of each day, staff input the total cash on hand at the cashier, which is then integrated with cash sales and accounts receivable data. In cases of imbalances, I conduct audits to identify discrepancies and assist in rectifying errors.
- Company Inventory Management**
Established a system to track and report real-time inventory data. Integrated Google Forms and Google Spreadsheet using the query() formula. Crew members can input requests or reports of damaged inventory via Google Forms. Managers coordinate with administration or the general department for procurement of new inventory or repairs. Purchased inventory items are labeled and entered into the company's inventory database with approval from administration.
- Invoice Management**
In my previous role, extensive collaboration with Group companies involved work orders issued through Surat Perintah Kerja (SPK). These orders are invoiced periodically. Initially, the SPK system lacked monitoring, leading to potential fraud. I implemented an invoice management system requiring sales personnel receiving SPKs from partner companies to include invoice numbers entered into their POS systems. During reconciliation, paired invoices from Group companies should match.
- Stock Security Management**
Observing an accumulation of misprinted papers from the photocopy division, I developed a stock security system. Crew members input machine counters daily, and I generate weekly reports correlating counter increments with paper requisitions. These reports are provided to the photocopy manager for evaluation purposes.

EDUCATION

Tadulako University August 2018 - June 2022

- Bachelor of Mathematics** (GPA : 3.8/4.0)
- Thesis Title :** Control of Dynamic Models of Drug Addict Groups Involving Treatments Such as Education, Rehabilitation, and Interaction Monitoring.

CERTIFICATION

Kaggle December 2023

- Kaggle Notebooks Expert

Dicoding July 2023 - October 2023

- Analisis Data Dengan Python
- Dasar Visualisasi Data
- Dasar Data Science

Udemy January 2023 - September 2023

- The Data Science Course :** Complete Data Science Bootcamp
- Data Analytics Real World Projects in Python

Coursera Google January 2023 - June 2023

- Project Manager Foundation

DQLab January 2022 - June 2022

- Fullstack Data Analyst in Python

TECHNICAL SKILLS

- Programming Language:**
Python, HTML, CSS, MySQL
- Tech Stack:**
Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, Django, Flask, Pytorch, JCOpml, HTML, CSS, Tableau, Canva, SPSS, Microsoft Office
- Language:**
- Indonesian (Native or bilingual proficiency),
 - English (Professional working proficiency)

PROJECTS

Fertilizer Company, Data Science Indo (DSW) Profesional Challenge

Mapping Free-Text Product Names to Catalog SKUs for a Fertilizer Company

Private Project
October 2023

Technology Stack:

- numpy for numerical computing in Python
- pandas is a powerful library for data manipulation and analysis. It provides data structures such as data frames that make it easy to work with structured data and perform tasks like data cleaning, exploration, and analysis.
- matplotlib.pyplot & Seaborn is a usefull library for visualize and report impact from models
- Word2Vec from gensim.impact is a part of the Gensim library used for natural language processing tasks. It is used to convert words or phrases into numerical vectors, allowing for the analysis of semantic relationships between words and documents.
- cosine_similarity from sklearn.metrics.pairwise is a metric used to measure the similarity between two non-zero vectors.

Sales Business Analyst

Analyzing Zoomato's sales data and gaining insights from the data to increase sales

<https://drive.google.com/file/d/1vWqMbg39i8ys-QdKo87a9zNBRu1zgCwr/view?usp=sharing>
September 2023

Technology Stack:

- Applying business logical thinking in the business context to clarify ambiguous targets or answers.
- ChatGPT to assist in providing efficiency solution in creating Python Order Management with Trello API.
- Extract, Transform & Load data using Python program language.
- Exploratory Data Analyst using Python.
- Visualization using Tableau.
- Presentation using Canva.

Order Management

Utilizing the Trello API & Python to generating all orders from the cashier database to Trello

June 2023

Technology Stack:

- Python request library
- Flask library to run the program on the server
- Pandas library to process data in order to fulfill the parameters of the Trello API's such as card name, card start date, card due date, checklist title, checklist items, etc
- Numpy library to assist in matrix operations, linear algebra, etc
- ChatGPT to assist in providing efficiency solution in creating Python Order Management with Trello API

Bank Marketing

Analyst and Target Prediction

<https://www.kaggle.com/code/dickyaryanto/analyst-insight-ml-predict-95>
February 2023

Technology Stack:

- matplotlib and seaborn for visualize and indetify patterns in the target variable of the data.
- Feature Engineering by analyzing A/B testing.
- Feature Selection using Chi_square method from sklearn.model_selection.
- Best param using GridSearchCV from sklearn.preprocessing.
- RandomForestClassifier method from sklearn.ensemble.
- Model evaluating using classification_report and confusoin_matrix by sklearn.metrics and got 95% accuracy peformance for prediction the target marketing

Product Recomendation System

Recomendation using correlation from cashier data transaction

<https://github.com/Iky61/product-recomendation-flask>
August 2022

Jakarta Covid-19

Predicting the number of asymptomatic COVID-19 cases by date to anticipate the wider spread of COVID-19

<https://github.com/Iky61/DSA-jakarta-covid-19>
June 2022

Technology Stack:

- matplotlib and seaborn for visualize and easily identify the highest Covid-19 case
- sklearn for preprocessing and craete Machine Learning for predict the asymptomatic Covid-19 cases by date
- sklearn for evaluated accuracy score of Machine Learning peformance