

MUHAMMAD RIZQ RAMADHAN

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PERSONAL PROJECT

Sentiment Analysis for Batik Air Reviews

- Implemented web scraping techniques to gather Batik Air reviews data from Airline Quality
- Utilized the Vader Sentiment library for in-depth sentiment analysis of the collected reviews.
- Developed a visually informative to present the sentiment analysis and aiding in easy interpretation of customer feedback patterns through Word Cloud visualization.

Alphabet Recognition with CNNs Model

- Developed a Convolutional Neural Networks (CNNs) model specifically designed to recognize lowercase alphabets from binary arrays.
- Achieved an impressive **accuracy rate of 85%** in the CNNs model by implementing custom early stopping callbacks, dropout layers, and L2 regularization techniques to optimize the model's performance.

Bike Sharing Analysis

- Conducted comprehensive data cleaning, manipulation, and visualization techniques, ensuring the dataset's accuracy and usability.
- Implemented exploratory data analysis (EDA), specifically focusing on correlations between user behavior and weather patterns, to maximize the bike sharing system.

ACTIVITIES

IDCamp 2023

Joined the program to learn the fundamentals of data science, including:

- The basic concepts of data analysis, such as data types, statistical measures, and data mining techniques.
- Data wrangling, exploratory data analysis, and data visualization.
- The concepts of machine learning, including supervised learning (regression and classification) and unsupervised learning (clustering and dimensionality reduction).
- Introduces to neural networks, with a focus on multi-layer perceptron and convolutional neural networks for image classification using TensorFlow library.

EDUCATION

Universitas Dian Nusantara (2021 – Expected 2025)

Computer Science, currently in 4th semester with cumulative IPK 3.48

ADDITIONAL

Technical Skills: Python, Excel, SQL, Tableau, Power BI

Languages: Intermediate English in writing and speaking

Certifications & Training: Dicoding Online Courses, Microsoft Excel - Advanced Formulas (Udemy)

[Click here](#) to learn more about all my personal project.