AHMAD KHOIRU SHOFA

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Surabaya, Indonesia

As a 6th semester student majoring in Information Systems at the State University of Surabaya, I focus on developing skills in Data Analytics and Machine Learning. I actively use Python in various data processing projects, employing critical thinking skills to gain insights into trends, patterns, and valuable information to support decision-making. Additionally, I am capable of working in a team, sharing analysis results through visualization and effective communication.

Skills dan Tools

- **Hard Skills**: Statistical Analysis, Data Visualization, Structured Query Language (SQL), Machine Learning.
- **Soft Skills**: Data Storytelling, Communication, Teamwork, Leadership.
- **Tools**: Python, Tableau, Google Colaboratory, Microsoft Excel, Visual Studio Code, SPSS.

Project Experience

Natural Language Processing - SMS Spam Classification
May 2024

Hacktiv8 Studi Independent Project

- Prepared a dataset of 5572 SMS messages for classification into two categories: Spam and Not Spam.
- Performed data pre-processing to ensure the data was correctly formatted and ready for training.
- Developed a SMS Spam classification model using the Long Short-Term Memory (LSTM) NLP Algorithm, achieving an accuracy of 96%.

Machine Learning - Stroke Prediction
May 2024

Hacktiv8 Studi Independent Project

- Explored data and discovered that age, hypertension, and blood glucose levels have the highest correlation as causes of stroke.
- Developed a stroke prediction model using Random Forest Machine Learning Algorithm with an accuracy above 90%.
- Optimized the model by performing Cross-Validation and Hyperparameter Tuning, resulting in an increased model accuracy of 96%.

Tableau Dashboard – Amazon Sales Dashboard
May 2024

Independent Project

- Collected 1,000 Amazon sales data entries and built a visualization dashboard using Tableau.
- Employed visualization techniques such as bar chart, maps, and trend lines to enhance data interpretation.

Computer Vision - Detecting Images of Rock-Paper-Scissors Gesture
Nov 2023

Dicoding Bootcamp Project

- Prepared and managed a dataset consisting of 2188 images across 3 classes (rock, scissors, and paper).
- Constructed a Deep Learning algorithm using Convolutional Neural Network architecture with a model accuracy of 98%.

Scrapping Data - Pahamify App
Oct 2023

Academic Project

- Scraped data consisting of 3000 comments and user ratings for the Pahamify app from the Google Play Store.
- Cleaned the data, ensuring its quality by removing any missing values and duplicate entries. Classified the data into three classes: positive, negative, and neutral.
- Analyzed the data and provided insights, revealing that a total of 72% of users expressed satisfaction with the Pahamify app.

Education

Hacktive Teknologi Indonesia - Surabaya, Indonesia
Feb 2024 - Now

Studi Indepedent Program in IBM SkillsBuilds for AI and Cybersecurity

- Course Highlight : Python, Machine Learning, Deep Learning, Prompt Engineering, Generative AI.

State University of Surabaya - Surabaya, Indonesia
Aug 2021 - Now

Undergraduate in Information System, 3.72/4.00

- Course Highlight : Data Mining, Business Intelligence, Statistic and Probability, Database.

Organization Experience

DPM FT UNESA - Surabaya, Indonesia   Jan 2023 - Jan 2024

Legislative Commission Staff

- Collaborated as a team in drafting legislative regulations for the internal organization within the faculty environment.
- Engaged in discussions with the executive committee of the faculty organization during the drafting of legislative regulations.

IKAMASPRA CAMPUS EXPO - Pati, Indonesia   Aug 2022 - Jan 2023

Chief Committee

- Led and coordinated the execution team to ensure the event ran smoothly and efficiently.
- Engaged in active communication and successfully secured 3 major sponsors, 5 media partners, and the participation of 21 campuses.
- Attracted over 500 participants, including high school students and teachers, to attend the event.
- Addressed any technical issues that arose during the event.

Certification

- **Machine Learning for Data Science Projects,** IBM SkillsBuild, 2024
- **Data Analysis Using Python,** IBM SkillsBuild, 2024
- **Data Visualization,** Kaggle Learn, 2024
- **Data Cleaning,** Kaggle Learn, 2024
- **Belajar Dasar Structured Query Language (SQL),** Dicoding Indonesia, 2023