WINALDI PUTRA JAYA

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EXECUTIVE SUMMARY

An Informatics Engineering student at the University of Lampung, equipped with a strong foundation in data and machine learning. Passionate about data analytics and machine learning algorithms. Seeking practical experience through internships to apply theoretical knowledge in real-world scenarios, thereby enhancing hard skill and soft skills. Demonstrates the ability to work under pressure and collaborate effectively in team settings.

WORK EXPERIENCE

Data Science Intern February 2024 – June 2024
PT. Hadji Kalla – Makassar, Indonesia

- Implemented predictive maintenance strategies using machine learning algorithms to analyze historical data and identify patterns indicative of optimal battery replacement times in GR vehicles, and perform advanced analysis for other sparepart.
- Successfully completed the asphalt price forecasting project using LSTM by incorporating additional features and variables such as oil price data to predict argus price. Developed a sales data trend forecasting model to guide argus purchases, utilizing annual sales data from PT. Bumi Sarana Utama, which is a subsidiary of the Kalla Group. Delivered outputs in the form of interactive dashboards for user-friendly insights using Power BI.
- Developed dashboards and APIs using tools like Power BI, Streamlit, and Flask for model deployment and for further modeling requirements in both projects.
- Carrying out projects using analysis, forecasting, and machine learning approaches
- Applied an analytical and business-oriented approach to problem-solving, considering factors such as the opinions of fellow interns, stakeholders, and mentor guidance.

Computer Lab Assistant September 2023 – July 2024
Universitas Lampung – Bandar Lampung, Indonesia

- Taught 4 practicum courses (algorithms and programming, data structures, rpl and operating systems) to students in semester 1 and 3.
- Provide direct guidance and instruction to students during lab sessions, as well as ensuring understanding of course material and fostering a learning environment.
- Evaluated and assessed student performance during practicum activities, offering constructive feedback to enhance learning outcomes.
- Responsible for recapping practicum assessment data from practitioners.

EDUCATION

University of Lampung – Bandar Lampung, Indonesia August 2021 – Present
Bachelors of Informatics Engineering
Cumulative GPA: 3.82/4.00
Relevant Courework: Algorithms, Database, Machine Learning, Deep Learning, & Programming

SMAN 15 Bandar Lampung – Bandar Lampung, Indonesia July 2018 – April 2021
High School of Science Major
Student Representative in City Level Chemistry Olympiad
Ranked in the top 5 in school, in grades 11 and 12

PROJECTS

- **FOB Bitumen Price Forecasting and Sales Prediction** February 2024 – April 2024
  This project develops a forecasting model using LSTM to make time series predictions based on asphalt prices, oil prices and also the company's annual sales. Where the time series regression approach used is the Univariate and Multivariate approaches. Evaluation of the sales model produces an r2_score of 82 percent with mae and mse values ranging from 446.02 and 361015.25. The Argus (asphalt) model uses a multivariate approach involving asphalt data (low and high) as well as oil data and produces two models with model evaluation (low and high) and the result of the model (high) r2 score of 95.7 percent with mae and mse values each of 6.8 and 82.87. As well as model evaluation (low) r2 score of 93.4 percent with mae and mse values of 10.72 and 115.05 respectively. The output produced from each model is a user-friendly Powerbi dashboard, so that Pt. Bumi Sarana Utama can easily use forecasting results as consideration for purchasing, selling and storing asphalt.

- **Face Recognition Using YOLO Technology** August 2023 – November 2023
  The face recognition project uses YOLO v8 technology, which is one of the advanced technologies of computer vision in object detection with facial recognition models. The dataset used is a primary dataset obtained from several student photos and images taken from a webcam, then processed with image labeling to customize the data so that it can produce a custom model with an accuracy level of more than 95 percent. This project is capable of running object detection-based facial recognition applications, and features a combination of deep learning and computer vision for facial recognition technology.

- **Machine Learning to Detect Diabetest** September 2023 – November 2023
  This project develops a diabetes prediction learning model using datasets from Kaggle, using SVM. This project includes data analysis, data cleaning, data normalization, SMOTE and selecting the best model using *GridSearchCV*. The result is a model that can predict diabetes with an accuracy of above 78 percent, which can be useful for doctors in supporting disease diagnosis decisions. Apart from that, there is a simple implementation model in the form of a website (on localhost) using website statistics and its use can be seen in the short usage guide.

CERTIFICATION

- Database Design, ORACLE Academy — October 2022
- Database Programming with SQL, ORACLE Academy — December 2022
- IoT Fundamentals: Connecing Things, Cisco Networking Academy — November 2023
- Belajar Machine Learning untuk Pemula, Dicoding Indonesia — October 2023
- SQL (Advanced), HackerRank — April 2024
- Memulai Pemrograman Dengan Python, Dicoding Indonesia — August 2023
- Belajar Dasar Visualisasi Data, Dicoding Indonesia — August 2023

SKILLS

Language: English & Indonesian
Soft Skill: Teamwork, Critical Thinking, Logic, Adaptive, Creative, Communication, Initiative
Hard Skill: C++, Java, Python, Data Analytics, Business Understanding, Matplotplib, Numpy, Machine Learning, Deep Learning, Computer Vision, NLP, Tensorflow, Apache Airflow, Apache Hadoop, Apache Spark, Apache Kafka, Statsmodels, Pyspark, Scikit-learn, HTML, CSS, Javascript, SQL, MySQL, Oracle, NoSQL, MongoDB, Data Visualization, Streamlit, Git, Github, ETL, Docker, Streamlit, Flask, AWS, AWS Sagemaker, Microsoft Office, Microsoft Power BI, Figma, Pentaho Spoon, and Microsoft SQL Server