Johannes Baptista Adiatmaja Pambudi

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WORK EXPERIENCE

Sigma Solusi Indonesia   **Aug. 2024 – Present**
Data Scientist

- Developed demand forecasting models utilizing PyTorch, and seamlessly integrated them with SQL databases to ensure robust data storage and retrieval for predictive analytics.
- Resolved inefficient inventory distribution by developing a stock balancing system that leveraged sales forecasts to recommend optimal warehouse transfers, resulting in optimized stock levels and reduced carrying costs.
- Engineered a comprehensive forecasting system using PyTorch and SQL to predict sales, COGS, and purchasing needs, enabling accurate estimation of corporate buying power and cash flow.

Beehive Drones   **Aug. 2022 – Jan. 2023**
Machine Learning Engineer - Internship

- Developed an end-to-end data pipeline to process and extract features from raw aerial imagery, preparing complex datasets for carbon value estimation.
- Engineered a deep learning model using TensorFlow that improved predictive accuracy to 0.52, significantly surpassing the 0.27 accuracy of the baseline SVR model.

EDUCATION

Universitas Kristen Duta Wacana   **2024**
Bachelor of Science, Informatics. 3.75 GPA

SKILLS

Python; SQL; Java; PHP; TensorFlow; PyTorch; Git; Pandas; scikit-learn; NumPy; Keras; Streamlit; Data Forecasting; Machine Learning; Deep Learning; Feature Extraction

CERTIFICATIONS

TensorFlow Developer Certificate   **2023**
Credential ID 86185588

PROJECTS

Gender Classification from Fingerprints   **Feb. 2024 – Jun. 2024**
github.com/adiatmaja/GenderClassification

- Enhanced fingerprint features for deep learning by implementing Gabor filters, a critical preprocessing step that resulted in a 7% F1-score improvement over baseline models.
- Deployed the model as an interactive Streamlit web application for accessible, real-time validation and demonstration.

ASAH (Aplikasi Sortir Sampah) - Waste Classification App   **May 2023 – Jun. 2023**
github.com/ASAH-Bangkit-2023/ASAH-Project

- Boosted the waste classification app's accuracy to 94% (a 6.1% improvement) by replacing the VGG16 model with the more efficient MobileNetV2 architecture, making the app significantly more reliable.
- Optimized the classification model for mobile devices by leveraging MobileNetV2's efficient convolutions, enabling smooth real-time inference and a successful integration into the production Android app.