MOHAMMAD IQBAL JAFFAR

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A 23-year-old Informatics Engineering student at Universitas Teknologi Bandung (semester 7) passionate about machine learning and data science, with hands-on experience in building classification, predictive, and recommendation models using Python and SQL. Certified participant of Bangkit Academy's independent study internship and Oracle Cloud Infrastructure training, actively honing skills to drive data-driven innovation.

EDUCATION

UNIVERSITAS TEKNOLOGI BANDUNG – Bandung (October 2022 – Present)
Bachelor of Informatics Engineering (Ongoing, 7th Semester)

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, PHP
- **Data Exploration Tools:** Jupyter Notebook
- **Data Management:** MariaDB, Firebase, Roboflow
- **Interactive Visualization:** Streamlit, Tableau
- **Containerization & Deployment:** Docker
- **Version Control & Collaboration:** GitHub

WORKING EXPERIENCE

Remote Internship | Tax Iwaki (Juni 2025 - Present)
Programmer

- Built and implemented backend logic and functions for handover and bento management systems, translating project documentation into functional features while ensuring smooth integration with the database.
- Designed, optimized, and integrated relational databases with the frontend team, enabling seamless data flow and reliable feature delivery across the system.

PROJECT

- **Anxiety Attack Severity Prediction (2025):** Built a machine learning model to predict anxiety attack severity (Mild, Moderate, Severe, Panic) using a Kaggle dataset with 12,000+ records, leveraging TensorFlow Transform (TFT) for feature engineering and deep learning with Keras. Deployed on Railway and Docker with real-time monitoring via Prometheus and Grafana to enhance model performance and usability**.**
- **Football Fake News Classification (2025):** Built a binary classification model using TFX components (SchemaGen, StatisticGen, Transform, ExampleGen, Tuner, Trainer, Evaluator, Resolver, Pusher) to detect fake and real news about football, achieving 91.88% accuracy and deployed it using Docker.
- **Predictive Analytics for MSRP (2025):** Conducted exploratory data analysis (EDA) and predictive modeling using Linear Regression and K-Nearest Neighbors (KNN) to estimate Manufacturer's Suggested Retail Price (MSRP), with KNN achieving the best performance in capturing vehicle pricing trends.
- **Model System Recommendation (2025):** Developed a feature-based phone recommendation system using cosine similarity, where Exploratory Data Analysis (EDA) was performed on a dataset to extract key insights, and precision evaluation showed 100% relevance in recommendations, ensuring users receive accurate and personalized smartphone suggestions.
- **EDA & Clustering Dataset Sales (2025):** Performed Exploratory Data Analysis (EDA) and applied advanced clustering techniques such as the Elbow method and PCA to identify key sales patterns and customer segments, delivering actionable insights for data-driven marketing optimization.
- **Automated Nutrition Fact Recognition and Sugar Content Extraction (2024):** Developed a CNN-based classification model to identify and extract nutrition fact tables from supermarket images, integrating OpenCV for precise table cropping and PaddleOCR for text extraction, focusing on sugar content in grams, achieving an F1-score of 0.8550 with strong classification performance.

TRAINING & CERTIFICATION

Magang Studi Independen Bersertifikat (MSIB) | Bangkit Academy (September 2024 - Desember 2024)
Machine Learning Cohort

- Earned 8 ML certifications from DeepLearning.AI, Stanford, and Dicoding covering TensorFlow, NLP, and GANs.
- Developed GlucoScan: CNN-based nutrition label analyzer (83% accuracy) with OCR extraction.

PORTFOLIO & PROFESSIONAL PROFILES

Portfolio : https://drive.google.com/drive/folders/16NX1rb1QKzEOXJy1omyUWulb-Y1Wo_-R?usp=sharing
Github : https://github.com/miqbaljaffar
LinkedIn : https://www.linkedin.com/in/mohammad-iqbal-jaffar-091939290/