

JEREMIA PINNYWAN IMMANUEL

📍 Bekasi, Indonesia | ☎ 0857-1166-6475 | ✉ jeremiap787@gmail.com
🌐 <https://www.linkedin.com/in/jeremia-pinnywan-immanuel/>
📁 <https://github.com/Nikanzz>

SUMMARY

Computer Science undergraduate passionate about data engineering, machine learning, and system development. Experienced in data preprocessing, model evaluation, and database management through hands-on research projects, with strong analytical and problem-solving abilities.

SKILLS

- **Programming & Tools:** Python, C++, Dart, PHP, JavaScript, MATLAB, Node.js, Flutter
- **Frameworks & Libraries:** TensorFlow, Scikit-learn, Laravel, Express, Bootstrap
- **Database:** MySQL, MongoDB
- **Other Skills:** Networking (GNS3), Git, Critical Thinking, Collaboration, Adaptability

WORK EXPERIENCE

Assistant Lecturer, Tarumanagara University

Aug 2025 - Present

- Assisted in teaching and supervising practical sessions on computer systems, helping 40+ students understand digital logic, number systems, and microcontroller applications.
- Supported assessment and grading, ensuring fairness and consistency across assignments.
- Provided feedback that improved students' analytical and technical performance.

PROJECTS

Prediksi Harga Pangan Jayapura Menggunakan ELM, LSTM, LightGBM, dan Gradient Boosting May 2025 - June 2025

- Built and evaluated time-series models through data preprocessing, training, and validation using MAE, MAPE, RMSE, R^2 , and training time.
- Achieved the best overall performance using ELM (MAE 0.21, MAPE 0.76%, R^2 0.87) and recommended it as an efficient and accurate model for food price forecasting in Eastern Indonesia.

Technologies: Python (Pandas, NumPy, TensorFlow, LightGBM, Matplotlib)

Deteksi Kelelahan Mata Berdasarkan Citra Wajah MRL Eye Dataset dengan Menggunakan GLCM, PCA, dan SVM May 2025 - June 2025

- Developed an eye fatigue detection system using GLCM, PCA, and SVM with the MRL Eye Dataset (infrared-based).
- Engineered texture-based feature extraction (GLCM) and applied dimensionality reduction via PCA to improve computational efficiency.
- Tuned model parameters using Grid Search and 3-fold cross-validation, achieving up to 92.38% accuracy with balanced precision, recall, and F1-score above 92%.

Technologies: MATLAB, GLCM, PCA, SVM

For more detailed projects and code repositories, please visit my GitHub and LinkedIn profiles.

EDUCATION

Bachelor of Science in Informatics Engineering

Aug 2021 - Current

Tarumanagara University, Jakarta

GPA: 3.54 / 4.00 | Specialization: Data Science