

JEREMIA PINNYWAN IMMANUEL

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 <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
<ul style="list-style-type: none">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
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- Built and evaluated time-series models through data preprocessing, training, and validation using MAE, MAPE, RMSE, R², and training time.
- Achieved the best overall performance using ELM (MAE 0.21, MAPE 0.76%, R² 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
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- 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	