Garent Ecklesia

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Summary

Undergraduate Data Science student with hands-on experience in machine learning, data preprocessing, and exploratory data analysis. Skilled in Python, SQL, and cloud-based workflows. Actively building projects on Kaggle and freelance platforms, and currently seeking an internship opportunity to contribute to real-world data solutions while expanding industry experience.

Technical Skills

- **Programming Languages**: Python, R, C, SQL, Java Script, Excel
- **Framework & Libraries**: Tensorflow, Keras, PyTorch, Scikit-learn, Pandas, Numpy, Hugging Face Transformers, Seaborn, Matplotlib
- **Skills**: Exploratory Data Analysis, Data Preprocessing, Machine Learning, Deep Learning, Model Deployment

Projects

Object Detection – Brain Tumor
Computer Vision

• Built a YOLOv8-based computer vision system for medical MRI analysis that detects and classifies different brain tumor types with real-time bounding boxes, tumor labels, and confidence scores.

• Developed a full-feature application supporting image and video uploads, webcam inference, confidence threshold adjustments, and downloadable prediction results in both image and CSV formats.

IndoBART – Text Summarization
Natural Language Processing

• Implemented an Indonesian-language summarization system using the IndoBART transformer, fine-tuned with the BBC Indonesia dataset to generate accurate, concise summaries for long articles.

• Built an interactive interface allowing users to input text, tune summarization parameters (max/min length, beam size), and instantly receive optimized summaries along with usage tips.

Fashion Recommender System
Natural Language Processing

• Developed a hybrid recommendation engine that combines IndoBERT semantic embeddings, category matching, and price relevance to deliver highly accurate product suggestions.

• Added interactive analytics and dynamic filters that let users visualize similarity scores, compare prices, and explore diverse recommendations through real-time re-ranking.

Disaster Classification System
Computer Vision

•a lightweight DenseNet121-based classifier, optimized with TensorFlow Lite, capable of recognizing four major disaster categories with high speed and low memory usage.

• Integrated a responsive Streamlit interface with confidence scoring, probability charts, and a built-in gallery that lets users test the model instantly.

Credit Card Fraud Detection
Machine Learning

• Created an end-to-end fraud detection pipeline featuring extensive preprocessing, outlier handling, SMOTE balancing, and engineered behavioral features such as velocity, anomaly scoring, and transaction-risk metrics.

• Deployed a Streamlit web application that performs real-time fraud prediction using a fine-tuned Random Forest model, providing instant results with probability scores and interactive input fields.

Education

Bina Nusantara University — Jakarta, Indonesia
Undergraduate Data Science Student — *Sep 2023 – Present*