ROMAULI GRACIELLA DEBORA

MACHINE LEARNING ENGINEER | **FRESH GRADUATE**
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Mathematics graduate with Data Science specialization and proven Machine Learning expertise. Achieved an A-grade thesis on deep learning-based sentiment analysis for mobile app reviews. Award-winning Data Science Academy participant with hands-on experience in stock price prediction modeling at the Investment Industry. Proficient in Natural Language Processing and computer vision projects, skilled in data preprocessing, algorithm implementation, and model evaluation. Ready to deploy cutting-edge Machine Learning solutions and collaborate on impactful projects.

EDUCATION

Universitas Indonesia | *Bachelor of Mathematics* **2021-2025**

- Related Course: Programming and Algorithm, Data Structure, Data Science, Deep Learning.
- Thesis: Topic-Level Sentiment Analysis Based on the Fully Neural Network on Mobile JKN Application User Review
- Achievements:
  - Best Team and Best Participant Data Science Academy by COMPFEST UI (2023)
  - 1st Place Winner of Stock Research Competition by CAK Investment Club (2023)
  - 1st Place Winner of Stock Debate Competition by PT. Bahana Sekuritas (2022)

COMPFEST Data Science Academy **August 2023 – September 2023**

- Learned end-to-end machine learning development from data preprocessing to model evaluation using Python.
- Developed an electric vehicles sales prediction model using Polynomial Regression, identifying key model evaluation and business model insights.

WORK EXPERIENCE

Machine Learning Project - Internship| PT. Mega Capital Sekuritas **September 2023 – March 2024**

- Applied classical investment techniques to understand market behavior.
- Used stochastic methods to analyze factors affecting stock price movements.
- Designed a machine learning model for stock price prediction and generated actionable buy/sell signals, leading to a 50% increase in the decision-making confidence of investors.

PROJECTS

Topic-Level Sentiment Analysis on Mobile JKN App Reviews Link **2025**

Conducted comprehensive sentiment analysis and topic modeling on 100.000 Mobile JKN app reviews from Google Play Store. Implemented BERT neural network achieving 98% accuracy for sentiment classification and Deep Embedded Clustering with GPT integration, successfully identifying 4 main topics.

Skin Type Classification Using Convolutional Neural Networks (CNN) Link **2025**

Developed automated skin type classification model using fine-tuned VGG16 CNN on 600 images. Achieved 81.67% accuracy for binary classification of normal vs oily skin.

SKILLS & LANGUAGES

- Programming Languages: Python, R.
- Data Analysis & Machine Learning: Pandas, Matplotlib, Scikit-Learn, TensorFlow, Keras.
- Deep Learning: Transformers, YOLO
- Languages: English (530 TOEFL ITP Link), Indonesian (Native)