



# Personal Portfolio

## Putri Maysa Adira

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# About me

Welcome to my portfolio!

My name is Putri Maysa Adira, a Data Science undergraduate student at **BINUS** University, Faculty of Computer Science. I have a strong interest in data analysis and machine learning, especially in transforming data into meaningful insights to support business decision-making.

During my studies, I have worked on various data projects, including risk prediction, churn analysis, sentiment classification, and data visualization. Through these projects, I am familiar with the end-to-end data science workflow, starting from data cleaning and exploratory data analysis to modeling and communicating insights.

I am eager to learn, adaptable to new challenges, and motivated to grow as a Data Scientist, particularly in applying data-driven approaches to real-world business problems

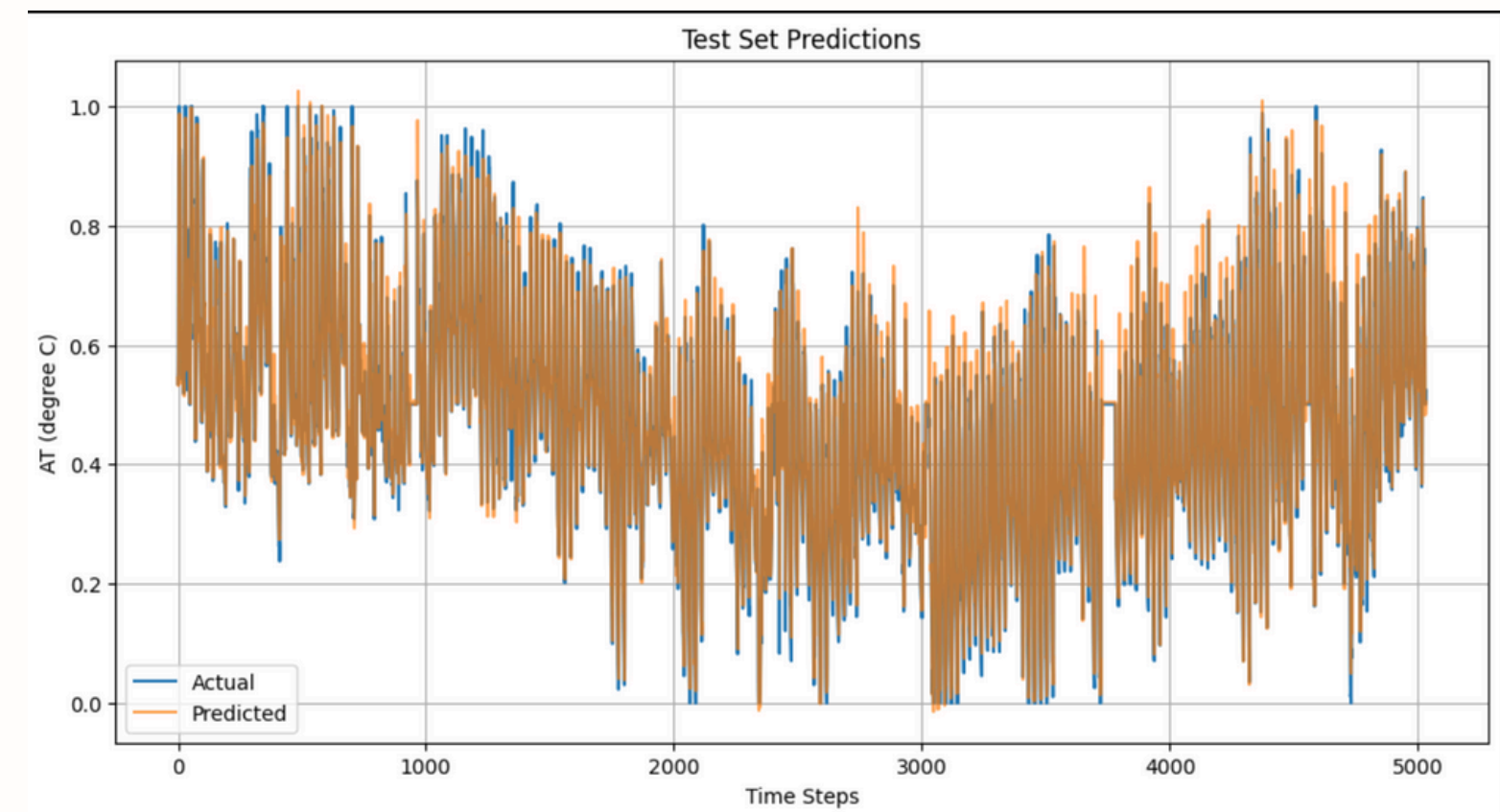


# Project

Putri Maysa Adira

## Multivariate Time-Series-Forecasting-for-Air-Temperature-Prediction

Multivariate Time Series Forecasting for Air Temperature Prediction is a project that focuses on predicting future air temperature by leveraging multiple time-dependent variables to capture complex temporal patterns. Using a multivariate forecasting approach, the model learns relationships across different features to improve prediction accuracy. The results show that the model is able to follow the overall temperature trend closely, with predictions aligning well with actual values across most time steps. Some discrepancies appear during rapid temperature changes, indicating opportunities for further model tuning, but overall the project demonstrates a solid understanding of multivariate time series forecasting and temporal data modeling.



# Project

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## SmartBooking : Predicting Hotel Cancellation Risk

SmartBooking – Predicting Hotel Cancellation Risks is a data science project aimed at predicting the likelihood of hotel booking cancellations using historical booking data. An end-to-end workflow was applied, including data cleaning, exploratory data analysis, feature encoding, and model development using a Random Forest classifier. The model achieved strong predictive performance, with an accuracy of around 86% and a ROC-AUC score of approximately 0.94, indicating a high ability to distinguish between high-risk and low-risk bookings. Feature importance analysis shows that deposit type, lead time, and customer behavior are key factors influencing cancellation risk. This project highlights how data-driven models and insights can be leveraged to support risk-based decision making in business contexts, particularly those related to finance and customer behavior analysis.



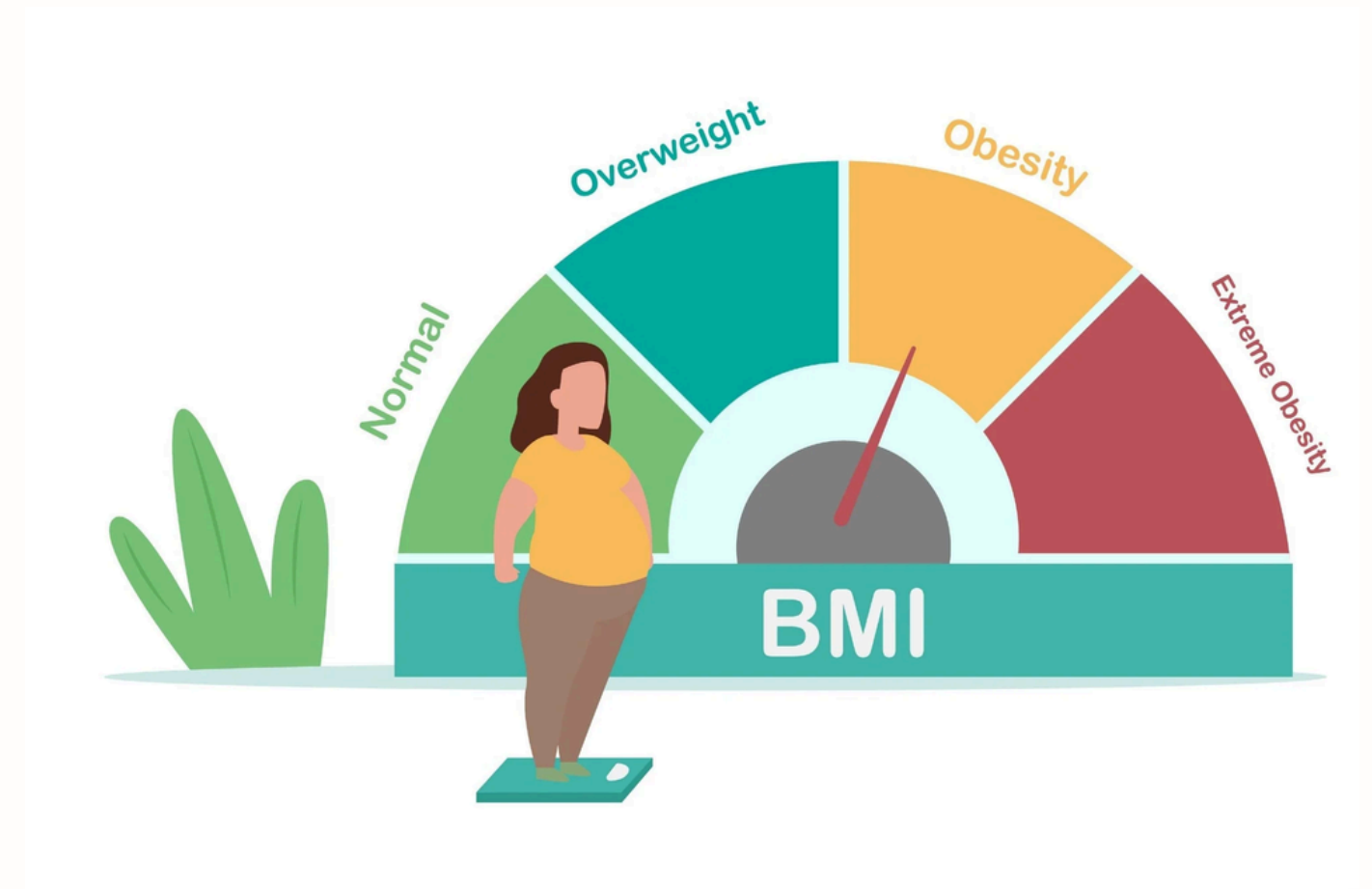


# Project

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## Obesity Risk Detection using FastAPI

Obesity Risk Detection API Based on FastAPI is a data science project that focuses on building a machine learning-based obesity risk prediction system deployed as a REST API using FastAPI. The project aims to bridge predictive modeling with backend application development, enabling real-time risk assessment through user-provided inputs. The model is trained on health and lifestyle-related features to classify obesity risk levels. The results demonstrate that the API can efficiently handle requests and deliver consistent predictions in real time. This project highlights not only model development, but also practical deployment, system integration, and the application of machine learning in real-world scenarios.

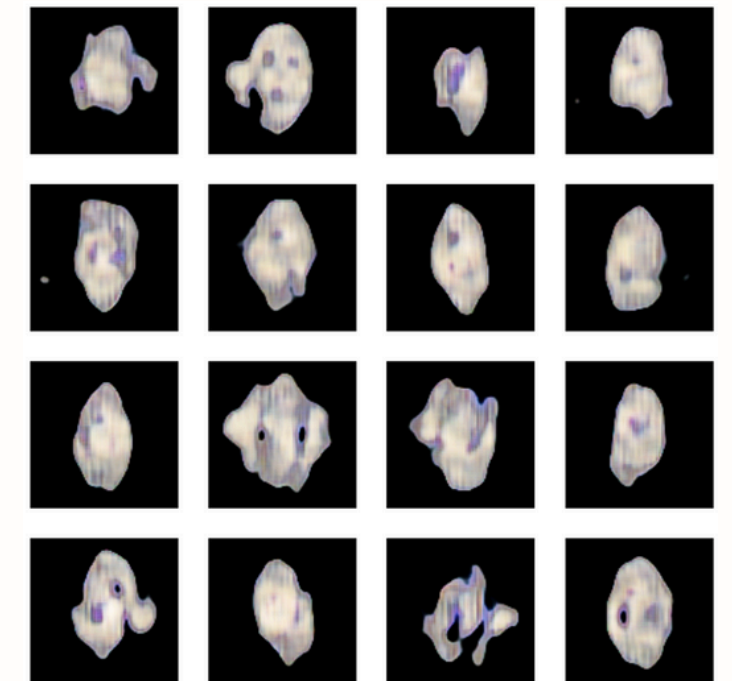
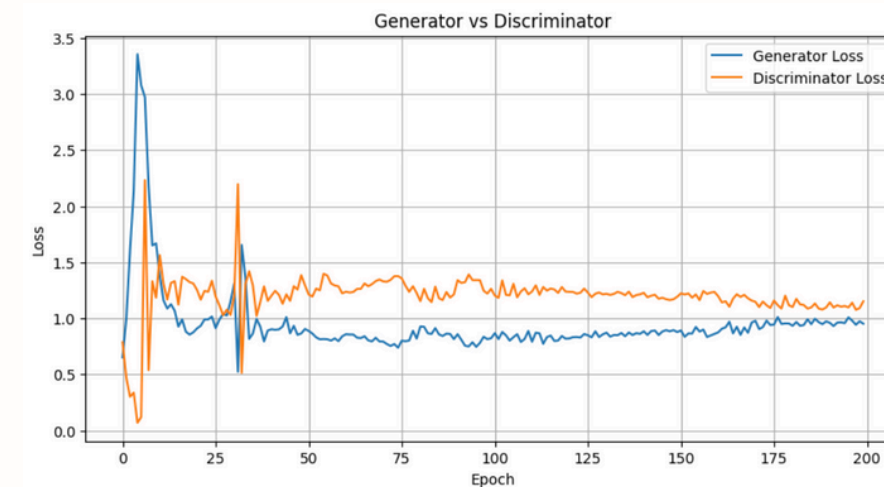
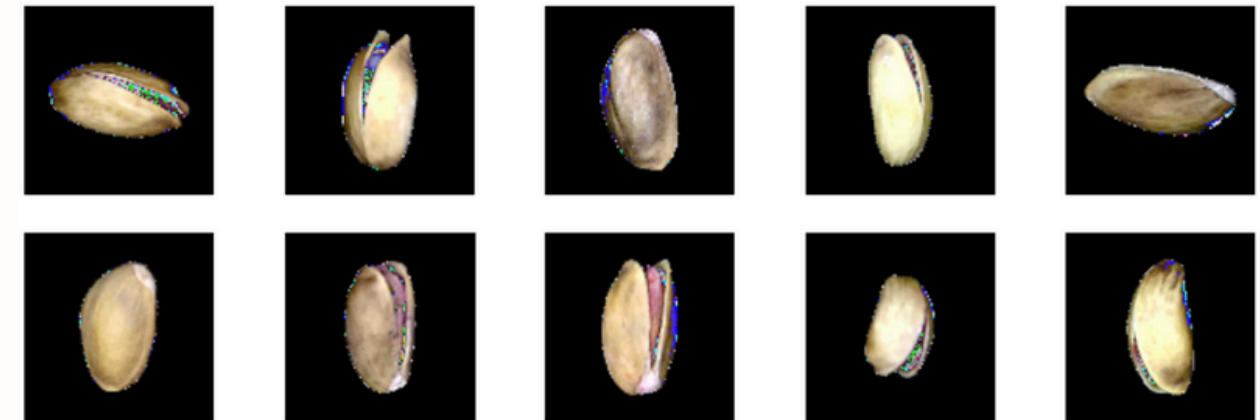


# Project

## Pistachio Image Generation Using Custom GAN Architecture

Pistachio Image Generation Using Custom GAN Architecture is a deep learning project that focuses on generating synthetic pistachio images using a custom-designed Generative Adversarial Network (GAN). The project aims to explore generative modeling by learning the visual distribution of pistachio images through the adversarial interaction between the generator and discriminator. The training results indicate a gradual improvement in image quality, where clearer visual structures emerge as the number of epochs increases. Training stability is reflected in the convergence pattern of generator and discriminator losses. In addition to visual inspection, model performance is quantitatively evaluated using the Frechet Inception Distance (FID), which shows a significant reduction after architectural modifications, indicating improved realism and similarity between generated and real images. Overall, this project demonstrates a solid understanding of GAN architectures, generative model evaluation, and the challenges involved in high-quality image generation

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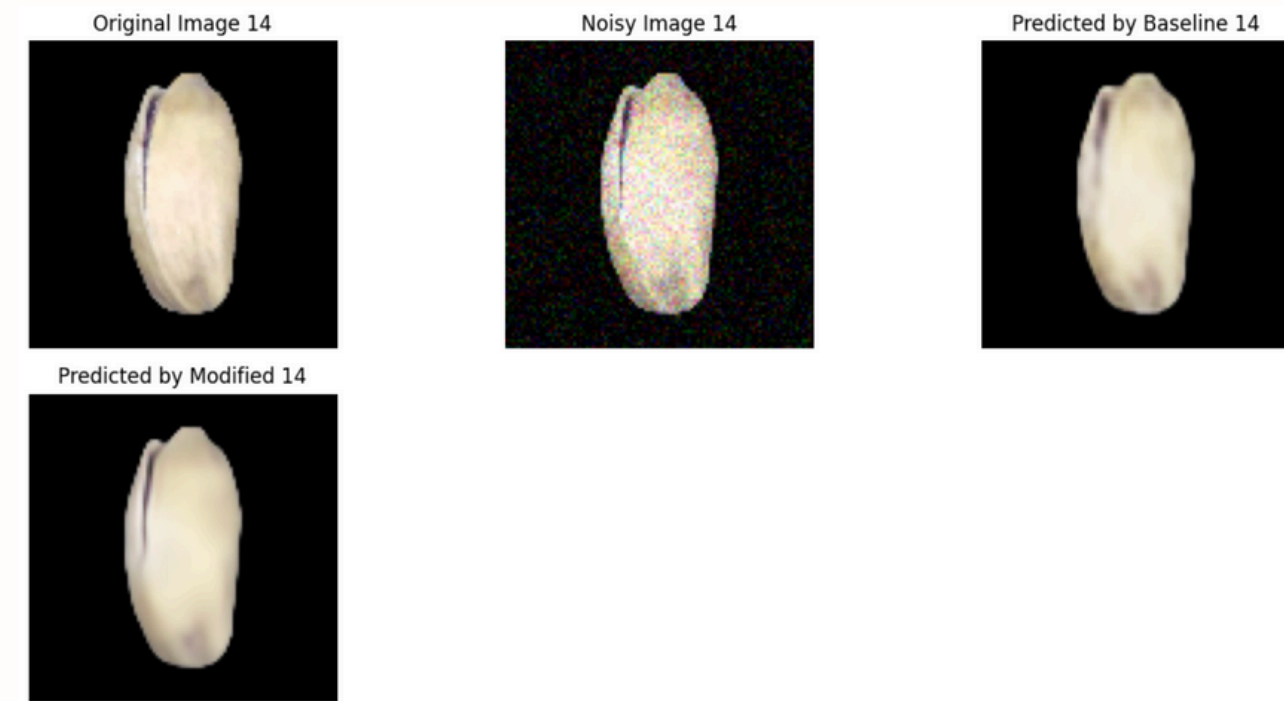


# Project

## Neural Network Based Gaussian Noise Removal

Neural Network–Based Gaussian Noise Removal is a deep learning project that focuses on removing Gaussian noise from images using a neural network model. The objective of this project is to understand how neural networks can learn pixel-level noise patterns and reconstruct cleaner images while preserving important structural details. The baseline model achieved an SSIM score of 0.9709, indicating a very high level of structural similarity between the reconstructed images and the original images. After applying architectural modifications, the SSIM score increased to 0.9788, demonstrating an improvement in preserving image structure. Although the numerical difference is relatively small, this improvement is meaningful in terms of visual quality, especially for applications that require high-fidelity image reconstruction.

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# Project

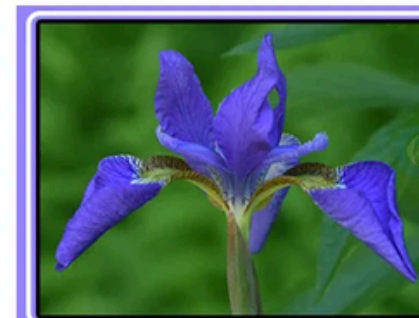
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## Object-Oriented Iris Classification System

Object-Oriented Iris Classification System is a fundamental machine learning project that focuses on building a supervised classification model using Python and Object-Oriented Programming principles. The project aims to classify iris flower species based on their physical measurements, such as sepal and petal dimensions. Beyond model performance, this project emphasizes clean code structure, modular design, and reusability by organizing the machine learning workflow into well-defined classes for data handling, model training, and prediction. Through this project, I strengthened my understanding of classification fundamentals, data preprocessing, and how to structure machine learning code in a maintainable way before working on more complex, real-world data science problems.



**Iris Versicolor**



**Iris Setosa**



**Iris Virginica**



# Skills and Expertise

1

Data Analysis & Exploratory  
Data Analysis (EDA)

2

Machine Learning &  
Predictive Modeling

3

SQL & Data Engineering  
Basics

As a data enthusiast, I am passionate about exploring data to uncover patterns, generate insights, and support data-driven decision making through analytics, machine learning, and visualization

I enjoy working with data end-to-end, from data cleaning and exploration to building predictive models and communicating insights in a clear and structured way.

Typography

4

Data Visualization  
& Dashboarding

5

Deep Learning

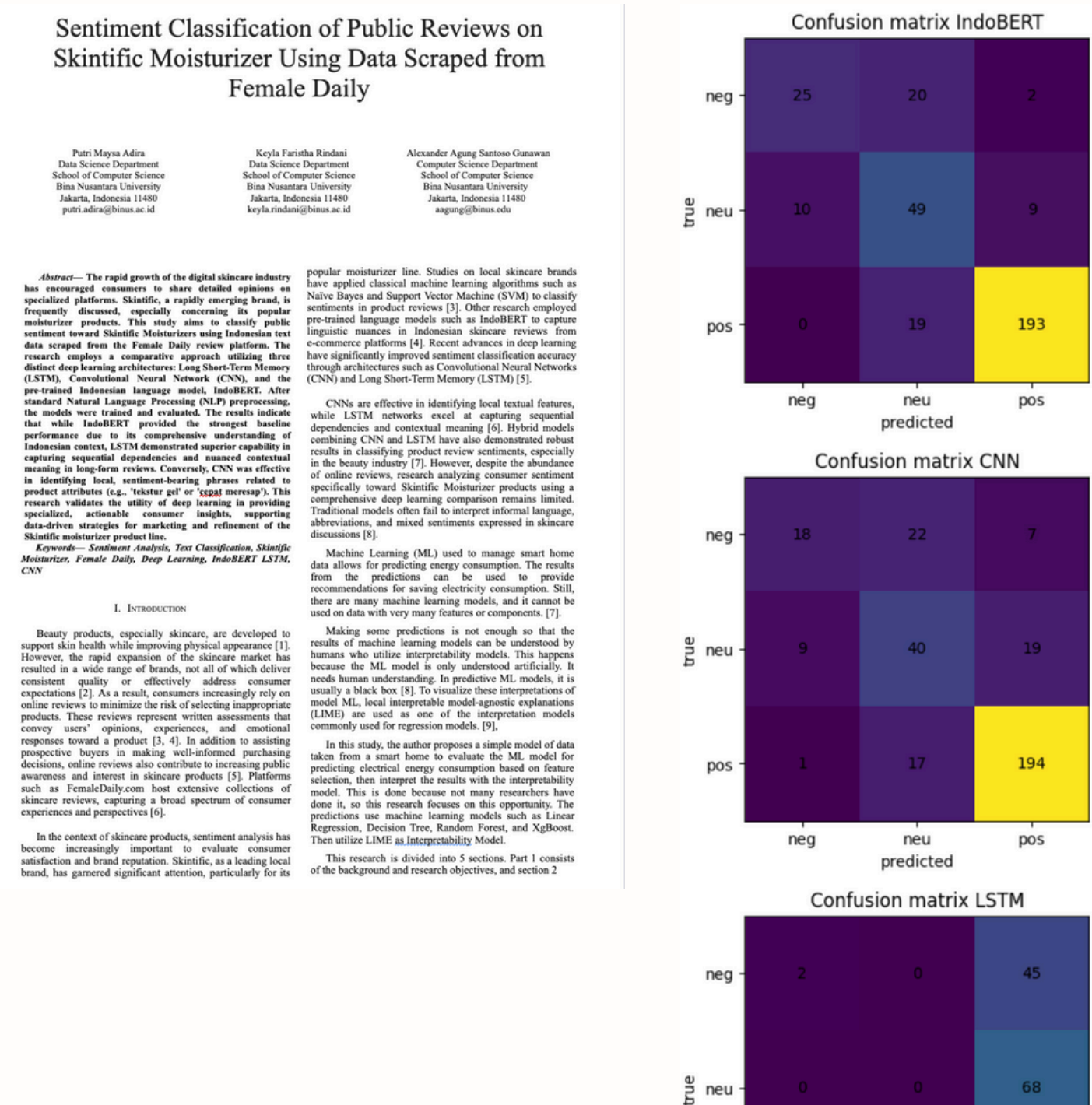
6

Natural Language  
Processing (NLP)

# Currently Project

This research focuses on sentiment classification of public product reviews by comparing transformer-based and deep learning baseline models. The study utilizes IndoBERT as the main model and compares its performance against CNN and LSTM as baseline approaches. The dataset consists of user-generated reviews that are preprocessed and labeled for sentiment analysis.

The objective of this research is to evaluate how contextual language representations from IndoBERT perform compared to traditional neural network architectures in capturing semantic and contextual information in Indonesian text. The results demonstrate that IndoBERT achieves superior performance in sentiment classification tasks, highlighting the effectiveness of transformer-based models for natural language processing in low-resource and non-English languages.





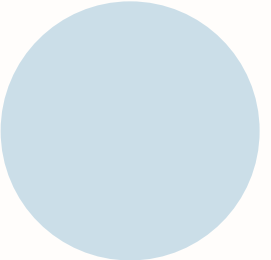




**Thank you for visiting, and I hope  
you find inspiration in my work!**

**Putri Maysa Adira**

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