FRANSISCA CELIA KARTAMIHARDJA

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SUMMARY

Self-taught programmer with a strong foundation in Python and machine learning. Quick to adapt to new tools and languages, with a strong passion for AI, data science and analysis, and real-world problem solving.

WORK EXPERIENCE

Graduate Research Assistant

July 2022 - July 2024

CIS Lab. (Computing Interactive Systems) Dankook University | Yongin, Gyeonggi, South Korea

- **Data Preprocessing:** Sign language dataset labeling, generate JSON and pickle metadata files for learning.
- **AI Model Development:** Using a transformer-based model, develop an I3D transformer model utilizing a novel sign language recognition model with class query.
- **Sign Language Recognition Improvement:** Improves the accuracy by 14.41% on a large American sign language dataset and achieves an accuracy of 92.31% on the Korean sign language dataset.

EDUCATION

Software Engineering, Master of Science | Dankook University | Yongin, Gyeonggi, South Korea — March 2022 - August 2024
GPA: 4.31 / 4.50

Culinary Business, Bachelor of Hospitality Business | Ciputra University | Surabaya, East Java, Indonesia — July 2015 - October 2019
GPA: 3.64 / 4.00

SKILLS

Python, C/C++, Pandas, PowerBI, Tableau, MySQL, Data Analysis, Machine Learning, Deep Learning, PyTorch, Tensorflow, Scikit-Learn, Matplotlib, Seaborn.

CERTIFICATION

- **Multiple Data Science and Programming Certificates | DataCamp | June 2024 - March 2025**
  - Covering subjects such as Machine Learning, Deep Learning, Python Programming, and Data Science.
- **Multiple Machine Learning Certificates | Kaggle | April 2025**
- **Machine Learning Specialization | Deep Learning AI, Coursera, Stanford | September 2023**
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LANGUAGES

Korean (Upper Intermediate), English (Upper Intermediate), Indonesian (Native)

PROJECTS

Titanic Survival ML Prediction Project

April 2025 - Present

End-to-end Machine Learning project using the Kaggle Titanic dataset to explore how data preprocessing techniques impact prediction accuracy.

- Performed data cleaning and feature engineering using MySQL (e.g., handling missing values, standardizing formats, etc.).
- Built and evaluated ML models to predict passenger survival.
- Created interactive visualizations using Tableau, PowerBI, and matplotlib (age distribution, class, gender, survival breakdown, etc.).
- Medium Article Link: https://medium.com/@fcel2510
- Github Link: https://github.com/fransisca25/titanic-ml-prediction-project