

Code Assignment 01

- *You should explain your answers in detail. Otherwise, no points will be given.*
- *Any form of academic misconduct will not be tolerated.*

1. (5 pts) Choose any time series data that you want to analyze. You may download it from the following websites.

- https://www.aihub.or.kr/open_data_board
- <https://www.kaggle.com/datasets>
- <https://research.google/tools/datasets/>
- <https://www.investing.com/>

You should describe what the data is about, other details (e.g., time period, frequency), and why you chose it.

2. (10 pts) Choose an appropriate deterministic trend for your data and estimate it. Then plot the trend with your data. Discuss whether the estimated trend fits your data or not.
3. (10 pts) Perform residual analysis. Discuss the results.

Note

- Please refer to the attached Python Jupyter notebook file. You are free to just use it or modify it. (ie313_code_assignment_01_ENG.ipynb)
- You should submit a report (in pdf format) that shows your work and results on the above three questions. You do not need to submit your code.