

# Yosuke(Daniel) Kawazoe

DATA SCIENTIST · MACHINE LEARNING ENGINEER

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## Work Experience

### Nomura Research Institute, Ltd.

Tokyo, Japan

DATA SCIENTIST

Apr. 2022 - July. 2024

- Enhanced meeting documentation efficiency by reducing manual effort by 85%, achieved through the development of an automated python application using the Gemini API.
- Boosted operational efficiency by 40% and cut deployment time by creating a CI/CD pipeline and aggregating artifacts on Code commit, Cloud Repository, and BitBucket to internal GitLab, thereby strengthening governance.
- Increased customer segmentation accuracy by over 15% compared to the previous method by marketing analysis, clustering analysis with POS data, and creating individual customer's characteristic tag with cutting-edge technologies like GPT API and RAG.
- Reduced the time of product planning relevance by 90% at most by developing a solution to create merchandise tags with GPT API and prompt engineering from Twitter data.
- Reduced inventory costs by 40% by developing demand forecasting AI model, similarity and anomaly detection algorithms, leveraging techniques like BERT and interpretable machine learning.

### Key to Metal AG

Belgrade, Serbia

MACHINE LEARNING ENGINEER INTERN

Aug. 2021 - Nov. 2021

- Surpassed Google's AI Platform benchmark accuracy by developing advanced machine learning models, including XGBoost, Random Forest, and the deep learning model "TabNet."
- Achieved a 80% boost in tool adoption by creating a GUI with Tkinter, enabling non-programmers to execute the Kennard-Stone algorithm, which was previously inaccessible without programming knowledge.

## Education

### Tokyo Metropolitan University

Tokyo, Japan

MASTER OF GEOGRAPHIC INFORMATION SCIENCE (SCIENCE)

Apr. 2020 - Mar. 2022

- Wrote master thesis called "A quantitative study for capturing the town's atmosphere by utilizing Convolutional Neural Network: A case study of Shimokitazawa"

### Tokyo Metropolitan University

Tokyo, Japan

BACHELOR OF GEOGRAPHIC INFORMATION SCIENCE (SCIENCE)

Apr. 2015 - Mar. 2020

- Wrote graduation thesis called "An analysis of current situation of Shimokitazawa, a town for young people -using visualization of the regional images-"
- Studied abroad in Canada for a year.

## Qualification

Jun. 2024 **Google Cloud Professional Machine Learning Engineer**, Certified by Google Cloud

Tokyo, Japan

Feb. 2024 **JDLA Deep Learning for ENGINEER**, Certified by Japan Deep Learning Association

Tokyo, Japan

Aug. 2023 **Google Cloud Professional Data Engineer**, Certified by Google Cloud

Tokyo, Japan

Jun. 2023 **Applied Information Technology Engineer Examination**, Certified by Ministry of Economy, Trade and Industry

Tokyo, Japan

Mar. 2023 **Google Cloud Associate Cloud Engineer**, Certified by Google Cloud

Tokyo, Japan

Jun. 2024 **Japan Statistical Society Certificate Grade 2**, Certified by The Japan Statistical Society

Tokyo, Japan

Nov. 2021 **TOEIC 935**, Certified by Institute for International Business Communication

Tokyo, Japan

Aug. 2020 **JDLA Deep Learning for GENERAL**, Certified by Japan Deep Learning Association

Tokyo, Japan

Jun. 2020 **IELTS Academic overall 6.5 (Listening 6.0, Reading 6.0, Speaking 7.5, Writing 5.5)**, Certified by British Council

Tokyo, Japan

## Technical Skills

<b>Speciality</b>	Data Science, Statistics, Machine learning, Deep learning, Big data Analysis, AutoML, Feature Engineering, Explainable AI (XAI), Time Series Analysis, Anomaly Detection, Web Scraping, Programming, Prompt Engineering, Statistical Analysis, Geographic Information System, LLM, LLM Application, Generative AI, Natural Language Processing, Image Recognition, Data engineering, Cloud Infrastructure, CI/CD, MLOps
<b>Programming</b>	Python, SQL, R, Java, HTML/CSS, JavaScript, Shell Script
<b>Frameworks</b>	Streamlit, Pytorch, Tensorflow, scikit-learn, openAI, google-generativeai, LangChain, Hugging Face, BeautifulSoup, Pandas, numpy, matplotlib, Tkinter, Spring Framework, and so on.
<b>BI tools</b>	Looker studio, Tableau
<b>Cloud</b>	Google Cloud, AWS, Azure
<b>OS</b>	Windows, Linux, Ubuntu, CentOS
<b>Development Tools</b>	Docker, Git, Jira, VS Code, PyCharm
<b>Microsoft Office</b>	Word, Excel, PowerPoint