

Yosuke Kawazoe

DATA SCIENTIST · MACHINE LEARNING ENGINEER

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Work Experience

Nomura Research Institute, Ltd.

Tokyo, Japan

DATA SCIENTIST

Apr. 2022 - July. 2024

- Developed an application for creating meeting minutes automatically with Gemini API.
- Created CI/CD pipeline and migrated artifacts from cloud-based repositories to internal Gitlab for enhancing governance and efficiency of operations.
- Developed a solution to understand consumer characteristics from POS data by clustering, marketing analysis, feature engineering, prompt engineering, and utilizing GPT API. Also, investigated in state-of-the-art technology and implemented them such as RAG to extract information from long PDF documents and Agent to retrieve the latest information from websites.
- Developed a solution to create merchandise tags from Twitter data by utilizing GPT API and prompt engineering.
- Developed similarity algorithm and anomaly detection solutions by analyzing POS data from Bigquery, Exploratory Data Analysis(EDA), preprocessing data using BERT, feature engineering, and interpretable Machine learning techniques.
- Developed demand forecasting AI model and validated models to improve its accuracy.

Key to Metal AG

Belgrade, Serbia

MACHINE LEARNING ENGINEER INTERN

Aug. 2021 - Nov. 2021

- Developed a variety of ML models such as XGBoost, Random Forest, and the state-of-the-art deep learning model "Tabnet" and archived to surpass accuracy from a benchmark of Google AI Platform.
- Created GUI tool with Tkinter to let other non-programmers execute Kennard-stone.

Unlock Design, Ltd.

Tokyo, Japan

IT RECRUITMENT CONSULTANT INTERN

May. 2021 - March. 2022

- Assist over 100 non-Japanese engineer candidates from abroad to get suitable jobs mainly in IT field in Japan by utilizing my knowledge of Internet Technology and English skills.

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

Feb. 2021 **Fundamental Information Technology Engineer Examination**, Certified by Ministry of Economy, Trade and Industry

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

Jun. 2020 **IT Passport**, Certified by Ministry of Economy, Trade and Industry

Tokyo, Japan

Technical Skills

Speciality	Machine learning, Deep learning, Big data Analysis, Prompt Engineering, Statistical Analysis, Geographic Information System, LLM, Natural Language Processing, Image Recognition, Data engineering, Cloud Infrastructure, CI/CD, MLOps
Programming	Python, SQL, R, Java, HTML/CSS, JavaScript
Frameworks	Streamlit, Pytorch, Tensorflow, scikit-learn, openAI, google-generativeai, LangChain, Hugging Face, Pandas, numpy, matplotlib, Tkinter, Spring Framework, and so on.
BI tools	Looker studio, Tableau
Cloud	Google Cloud, AWS, Azure
OS	Windows, Linux, Ubuntu, CentOS
Tools	Docker, Git
Microsoft Office	Word, Excel, PowerPoint