

# Yosuke Kawazoe

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**Visa Status:** Youth Mobility Scheme (01/07/2024~30/06/2026)  
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**Github:** <https://github.com/Yosuke0805>

**Portfolio:** <https://yosukeportfolio-yvzmajnybrzah58vzoxkmx.streamlit.app/>

## **Objective:**

Aspiring to thrive in an international work environment, leveraging proficient data science skills, cloud technology knowledge, and fluency in English to drive data-driven solutions and contribute to the growth and success of a global organization with continuous learning.

## **Work Experience:**

### **Data Scientist**

Full-time at Nomura Research Institute, Ltd.(Tokyo, Japan)

Apr 2022-July 2024

- Consulting and assisting software development with one of the major automobile companies in Japan and North America.
- Created CI/CD pipeline and migrated artifacts from cloud-based repositories to internal Github for enhancing governance and efficiency of operations.
- Building data analytics infrastructure to implement our solutions on GCP, AWS, and Azure.
- Creating an ABC analysis application for letting users choose merchandise categories, periods, and metrics.
- Investing in state-of-the-art technology and implementing them such as RAG to extract information from long PDF documents and Agent to retrieve the latest information.
- Invented our own system to understand consumer characteristics from purchasing data by feature engineering and utilizing GPT models.
- Invented our own system to create merchandise tags from Twitter data by utilizing GPT models.
- During a proof of concept for an AI system, extracted data from Bigquery and conducted Exploratory Data Analysis(EDA). Based on EDA, created AI models through preprocessing such as using BERT to vectorize product names, feature engineering, and interpretable Machine learning techniques, and gave presentations to our client on a weekly basis.
- Arranged current business processes and created new business flows by utilizing an AI system for the client in the retail industry. In addition, devised the functions of an AI system and planned roadmaps for a proof of concept.
- Created demand forecasting AI model and validated models to improve its accuracy for one of the biggest retail clients.

### **Achievement:**

- Built system environment on a server from scratch, developed customer retrieval application and deployed on the environment.
- Developed an application for creating meeting minutes automatically with Gemini API.
- Created solutions to understand consumer characteristics through constructing a multi-cloud data analysis environment with advanced security.

- Contributed to transforming the R&D project into an investment activity that validates its worth and creates actual solutions for real clients.
- Implemented logic and improved model's accuracy for the development of an AI system to solve customers' problems, ultimately obtaining customer approval and progressing toward system implementation.

### **IT recruitment consultant**

Internship at Unlock Design, Ltd.(Tokyo, Japan)

May 2021-March 2022

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

#### **Achievement:**

- Assist over 100 non-Japanese engineer candidates by discussing their past work experiences.

### **Machine learning engineer**

Internship at Key to Metal AG(Belgrade, Serbia)

August 2021-November 2021

- Implemented the state-of-the-art deep learning model "Tabnet" whose accuracy surpasses the benchmark of Google AI Platform.
- Created GUI for letting non-programmers conduct Kennard-Stone.

#### **Achievement:**

- Created the state of the art deep learning model whose accuracy has surpassed the benchmark of Google AI Platform with parameter tuning.
- Created GUI with Tkinter to let other non-programmers execute Kennard-stone.
- At the end of the on-site internship, got the job offer by working remotely with 4000 yen per hour which is more than three times as high as the average salary in Japan due to my higher performance.

### **Sales**

Internship at Goen Consulting Pvt. Ltd. (Gurugram, India)

August 2020-September 2020

- Targeted potential clients and negotiated directly with new potential customers as a salesman and tried to solve their potential problems by advertising their business to Japanese expats in India.

#### **Achievement:**

- Sold three advertising spaces to three customers overall for five days.

### **Education:**

#### **Tokyo Metropolitan University, Japan**

Master of Geographic Information Science (Science)

April 2020 – April 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, Japan**

Bachelor of Geographic Information Science (Science)

Apr 2015 – Mar 2020

### **Qualifications:**

- Google Cloud Professional Machine Learning Engineer (2024)

- Certification validating expertise in designing, building, and productionizing machine learning models on Google Cloud.
- **JDLA Deep Learning for ENGINEER (2024)**
  - Certification demonstrating advanced proficiency in implementing and utilizing deep learning technologies for engineering applications.
- **Google Cloud Professional Data Engineer (2023)**
  - Certification demonstrating advanced skills in designing, building, and managing data processing systems on Google Cloud.
- **Applied Information Technology Engineer Examination (2023)**
  - National certification validating comprehensive knowledge and skills in applied IT systems and infrastructure.
- **Google Cloud Associate Cloud Engineer (2023)**
  - Certification proving foundational knowledge and skills in deploying applications, monitoring operations, and managing enterprise solutions on Google Cloud.
- **Japan Statistical Society Certificate Grade 2 (2021)**
  - Credential demonstrating intermediate-level proficiency in statistical analysis and methodologies.
- **TOEIC 935 (2021)**
  - A widely recognized standardized test measuring English language proficiency with maximum score 990, specifically in a business context, for non-native speakers.
- **Fundamental Information Technology Engineer Examination (2021)**
  - National certification proving foundational knowledge in information technology, covering basic concepts and practices.
- **JDLA Deep Learning for GENERAL (2020)**
  - Certification indicating a broad understanding of deep learning principles and applications, geared towards non-engineering roles.
- **IELTS Academic overall 6.5 (Listening 6.0, Reading 6.0, Speaking 7.5, Writing 5.5) (2020)**
- **IT Passport (2020)**
  - Entry-level certification demonstrating basic understanding of IT concepts, systems, and business practices.

## **Technical Skills:**

- Skills: Machine learning, Deep learning, Machine 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
- Cloud: Google Cloud, AWS, Azure
- OS: Windows, Linux, Ubuntu, CentOS
- Container: Docker
- Microsoft Office: Word, Excel, PowerPoint

### **Personal Profile Statement:**

- Cultural Open-Mindedness: Possesses a strong open-mindedness and adaptability to diverse cultures, fostering an inclusive and collaborative work environment. Demonstrated ability to effectively communicate and engage with individuals from varying cultural backgrounds.
- Analytical Acumen: Proficient in applying analytical skills to dissect complex problems and derive valuable insights. Adept at interpreting data and making data-driven decisions, contributing to improved processes and outcomes.
- Tenacious Work Ethic: Known for a resilient and dedicated work ethic, approaching every task with determination and a solution-oriented mindset. Consistently embraces challenges and delivers high-quality results even in demanding and dynamic situations.