

Senior Data Scientist - AI Agent Development Section

Job Information

Temp Agency
Randstad K.K., Professionals

Job ID
1609565

Industry
Internet, Web Services

Company Type
Large Company (more than 300 employees) - International Company

Non-Japanese Ratio
About half Japanese

Job Type
Temp to Perm

Location
Tokyo - 23 Wards

Salary
8 million yen ~ 14 million yen

Work Hours
9:00-17:30

Refreshed
November 18th, 2026 05:00

General Requirements

Minimum Experience Level
Over 3 years

Career Level
Mid Career

Minimum English Level
Business Level

Minimum Japanese Level
None

Minimum Education Level
Associate Degree/Diploma

Visa Status
Permission to work in Japan required

Job Description

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Business Overview

The company is one of the leading e-commerce companies in the world. Its mission is to empower people and society through the internet while aiming to become a global innovation company.

Department Overview

The department plays a crucial role in supporting various business operations that occur between users, clients, and the company's businesses from a systems perspective. The division provides diverse services across four key domains: Data, Business Support/Accounting, CRM, and AI Agent, which builds the foundation for leveraging AI across the entire organization. The department is committed to pursuing business process optimization and efficiency while delivering high value through its system offerings.

The AI Agent Development Section, established in January 2026, is dedicated to building next-generation AI agent applications that empower the company's diverse business units through AI technology.

Its mission is to reshape the digital future of e-commerce by building AI-native solutions that empower merchants, catalyze new revenue growth, and radically reduce operational costs.

The main goal is to unify merchant communication services by consolidating fragmented communication services into a single, cohesive merchant interface to streamline communication and user experience.

Position Details

- Design and deploy advanced machine learning models and LLM-based agents to automate and optimize merchant communication.
- Develop RAG (Retrieval-Augmented Generation) systems to provide accurate, context-aware responses to merchant inquiries.
- Analyze large-scale transactional and behavioral data to uncover insights that drive revenue growth and operational efficiency.
- Collaborate with product managers and engineers to integrate AI capabilities into the unified merchant interface.
- Mentor junior data scientists and establish best practices for AI development and model evaluation within the team.

Required Skills

Mandatory Qualifications:

- Master's or Ph.D. in Computer Science, Statistics, Mathematics, or a related quantitative field.
- More than 5 years of experience in data science, machine learning, or AI research.
- Proficiency in Python and deep learning frameworks (e.g., PyTorch, TensorFlow).
- Strong experience with LLMs, prompt engineering, and fine-tuning techniques.
- Excellent communication skills in English and Japanese (to bridge technical and business requirements).

Desired Qualifications:

- Experience in building end-to-end AI agent systems or conversational AI platforms.
- Proven track record of leading data science or AI engineering teams, including mentoring and project management.
- Knowledge of cloud infrastructure (e.g., GCP, AWS) and MLOps practices.
- Experience in E-commerce domain or large-scale B2B SaaS platforms.
- Contribution to open-source AI projects or publications in top-tier AI conferences (e.g., NeurIPS, ICML).

Company Description