Taro Tanaka

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EXPERIENCE

AAA Company
Data Scientist and Engineer   *Jul 2020 - Jun 2023, Tokyo, Japan*

Acceleration of Multivariate Testing
- Led team of 7 in collaborative project with the UI/UX team to enhance multivariate testing processes.
- Developed and implemented mathematical models to address UI/UX challenges, translating academic research into Python code.
- Optimized web application testing by applying "best arm identification" algorithm from multi-armed bandit theory, reducing the number of test patterns and improving conversion rates by 8%.

Recommendation System for Real Estate Webpages
- Developed machine learning API to provide personalized property recommendations on real estate webpages, enhancing user experience by aligning suggestions with customer preferences.
- Chose LightGBM for the recommendation engine due to its compatibility with BigQuery data, achieving 5% increase in recall@5 compared to existing models.

Data Validation System
- Participated in developing system to detect data anomalies that could impair machine learning models, including recommendation systems, preventing significant profit loss.
- Implemented wrapper interface for AWS Deequ, the core module of system, and developed extensions for various use cases in Scala.

BBB company
Web Engineer and Math Teacher   *Apr 2019 - Mar 2020, Kyoto, Japan*

Web Page Development and Maintenance
- Deployed websites to promote the founder's initiatives, attracting prospective students and enhancing online visibility.
- Built the websites using 3-tier architecture, implemented in Python with Flask framework; containerized with Docker for streamlined maintenance and deployed on GCP to optimize costs.

CCC company
Quantitative Analyst and Engineer   *Apr 2018 - Mar 2019, Tokyo, Japan*

Price Calculation Module for Binary Options
- Led development of price calculation library, collaborating with IT system department to launch new binary options products (type of financial derivative).
- Developed Python library from scratch based on the Black-Scholes model to accurately price binary options.
- Replaced outsourced system, enhancing work efficiency and reducing operational time by 3 hours weekly.

Monitoring of CFDs (Contract for Differences)
- Developed batch processing system to visualize bid prices, trade records, and revenues of CFDs by extracting transaction data from Oracle and creating plots using Python.

SUMMARY

Skilled data scientist specializing in machine learning and financial engineering with 4 years of experience. Persistent dedication, analytical prowess and strong soft skills for fostering collaborative work relationships.

SKILLS

Back End	Python, C++
Front End	HTML, CSS, JavaScript
DBMS	BigQuery, Oracle
OS	macOS, Linux(CentOS)
DevOps	Docker, GitLab, GitLab CI
Misc.	AWS, GCP, LaTeX
Soft Skills	Resilience, Attentiveness

EDUCATION

AAA University   **Tokyo, Japan**
Master of Science - Mathematics
GPA: 3.75/4.00

BBB University   **Tokyo, Japan**
Bachelor of Science - Mathematics

SCORES

IELTS (General Training)
Overall: 7.5

AtCoder
Rate: 1800+, Solved problems: 1800+

LeetCode
Rate: 2400+, Solved problems: 800+

LANGUAGES

- Japanese (Native)
- English (Advanced)

INTERESTS

- Learning Languages
- Fitness
- Classical Piano