Satomi Ito

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EDUCATION

Georgetown University — *M.S. Data Science and Analytics*

Aug 2024 - Present

University of California, San Diego — *B.S. Cognitive Science Spec. in Machine Learning, Minor in Computer Science*

Sept 2019 - Jun 2023

EXPERIENCES

ZSFG Neurology, San Francisco, CA — *Data Scientist*

Sept 2023 - Jun 2024

- Built predictive AI models using boosted decision trees and time-series analysis on large-scale medical datasets (~4TB), improving brain activity prediction accuracy by 21% (PyTorch).
- Automated multi-sourced workflows with Python, SQL, and MATLAB, increasing data processing efficiency by 65%.
- Created interactive dashboards to communicate actionable insights, facilitating data-driven decisions among cross-functional teams.

WesLabs.ai, Boston, MA — *Artificial Intelligence Research Intern*

May 2023 - Sept 2023

- Developed multimodal sentiment analysis models through BERT variations (RoBERTa) to analyze and categorize user content data, generating insights influencing product design and strategy.
- Introduced GitHub Actions to automate build, test, and deployment workflows. Employed containerization (Docker) to streamline development, achieving reproducible ML experiments for future R&D.
- Collaborated with the Products team to design and implement visualizations and dashboards using Tableau and Power BI to highlight A/B testing results, simplifying complex findings for key stakeholders.

PROJECTS

Decoding Song Success

Oct 2024 - Dec 2024

- Analyzed song features and artist metrics using the Spotify API to predict song success and create genre-specific playlists.
- Applied sentiment analysis (VADER, TF-IDF) and machine learning models to evaluate the impact of lyric sentiment and collaborations on performance.

JANAS: Japanese and American News Analysis Sentiment

Nov 2024 - Dec 2024

- Built a multilingual sentiment analysis pipeline using Hugging Face, VADER, and machine translation models to analyze global news trends.
- Highlighted cultural differences through visualizations and provided actionable insights on politics and business.

EXTRACURRICULAR

Cognitive Science Student Association — *President*

May 2022 - Jun 2023

- Doubled event turnout through initiatives promoting diversity, collaboration, and interdisciplinary engagement.
- Organized 10+ workshops, networking events, and panel discussions, fostering connections between students, industry leaders, and faculty.
- Led cross-functional teams to evaluate feedback, iteratively refine event strategies, and enhance community involvement.