Satomi Ito

si408@georgetown.edu | +1 (858) 306-5404 | https://satomitheito.github.io/

EDUCATION

M.S. Data Science and Analytics, **Georgetown University** Aug 2024 - Present

B.S. Cognitive Science Spec. in Machine Learning, **University of California, San Diego** Sept 2019 - Jun 2023

EXPERIENCES

Data Scientist Sept 2023 - Jun 2024

University of California San Francisco Neurology | San Francisco, CA

- Built predictive AI models using boosted decision trees and time-series analysis on large-scale medical datasets, 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.

Artificial Intelligence Research Intern May 2023 - Sept 2023

WesLabs.ai | Boston, MA

- Developed multimodal sentiment analysis models using natural language processing and computer vision to analyze and categorize content data (PyTorch), a key feature which boosted content interaction rates by 30%.
- Collaborated with the products team to design and implement a new user dashboard using Figma and Typescript, improving dashboard usage by 80%.
- Introduced GitHub Actions to automate build, test, and deployment workflows. Employed containerization (Docker) to streamline development, achieving reproducible ML experiments for future R&D.

PROJECTS

POPMART POP NOW Predictor May 2025 - Present

- Developed, orchestrated, and maintained web scrapers and SQLite database on the cloud to provide accurate real-time product info on a daily basis.
- Built a Python tool to predict product placement using constraint satisfaction and probabilistic reasoning.
- Designed and implemented an intuitive user experience that serves the tool in a website format (HTML5, CSS, JS).

GestureSketch: Real-Time Vision-Based Drawing Interface Mar 2025 - Apr 2025

- Built end-to-end ML pipeline for real-time gesture recognition using custom 1D/2D CNNs on normalized MediaPipe hand landmarks (95%+ accuracy, 7 classes).
- Developed automated data collection and training framework with feature engineering and TensorFlow optimization.
- Created and showcased an AR drawing tool based on the final model, securing 2nd place and scholarship recognition among 50+ competing teams at Georgetown DSAN ML Hackathon.

LEADERSHIP

***President,* Cognitive Science Student Association** 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.