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

EXPERIENCE

ZSFG Neurology, San Francisco, CA — *Data Scientist*
Sept 2023 - Jun 2024

- Collaborated with clinicians and data scientists to develop AI models for simulating and predicting patient brain activity in critical neurological conditions, leading to a 21% improvement in prediction accuracy.
- Automated multi-sourced workflows using Python and MATLAB, improving pipeline efficiency by 65%.
- Delivered actionable insights to non-technical stakeholders through data visualizations using Matplotlib and Seaborn, ensuring data-driven decisions and smooth team alignment.
- Managed project delivery daily from data cleaning (handling datasets of up to 2TB) to deployment, identifying bottlenecks, and coordinating across teams to resolve them.

WesLabs.ai, Boston, MA — *Artificial Intelligence Research Intern*
May 2023 - Sept 2023

- Developed machine learning models to analyze user behavioral data, enabling insights-based design decisions.
- Created data visualizations and dashboards using Python and SQL, simplifying complex information for stakeholders.
- Contributed to Agile product development in a dynamic environment, collaborating with cross-functional teams on iterative improvements.

Toor Lab, San Diego, CA — *Machine Learning Researcher*
Jan 2023 - Sept 2023

- Applied convolutional neural networks (using PyTorch) to generate 3D protein structures, achieving an accuracy improvement of 15% over previous models.
- Analyzed large biological datasets (up to 5GB) using Python, R, and ChimeraX, demonstrating advanced data processing skills and proficiency in data wrangling techniques.
- Developed reproducible workflows to streamline machine learning pipelines and optimize models.

PROJECT

Predicting Delayed Cerebral Ischemia (DCI) in Subarachnoid Hemorrhage (SAH)
Sept 2023 - June 2024

- Built BiLSTM models to analyze time-series EEG data, achieving best-in-class prediction accuracy and supporting clinical decision-making.
- Collaborated with interdisciplinary teams to refine model features, ensuring alignment with stakeholder needs.

De-identification and Conversion of Patient Data to WFDB Format
Apr 2024 - Jun 2024

- Processed and reconciled over 2TB of patient data, ensuring compliance with data integrity standards.
- Automated workflows to reduce manual processing time by 50%, ensuring a speedy delivery.

EXTRACURRICULAR

Cognitive Science Student Association — *President*
May 2022 - Jun 2023

- Led initiatives to increase engagement, resulting in a 100% increase in event turnout.
- Fostered interdisciplinary collaboration of students and industry professionals, raising community involvement.