

Audrey Tin Latt

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Objective

Experienced data analyst with expertise in Power BI, SQL, and machine learning. Strong background in data-driven model development and deployment. Seeking opportunities in ML to apply my skills in solving real-world problems. U.S. permanent resident - no sponsorship required.

Technical Skills

- **Machine Learning:** Neural Networks, PyTorch, TensorFlow, Keras, Scikit-learn, Model Deployment
- **Data Analysis:** Power BI, SQL, DAX, M Query, Oracle SQL, Dataverse, SAP Reports
- **Programming:** Python, MATLAB, Java, Ruby, C, SPL
- **Tools:** Git, Jira, BitBucket, VSCode, Eclipse, AWS S3, Jenkins, Splunk
- **Frameworks:** .NET, Next.js, Odoo ERP
- **Project Management:** Agile (Scrum)

Professional Experience

Technology and Systems Analyst

University of South Florida, Tampa, FL

October 2023 – Present

- Became a Subject Matter Expert (SME) for legacy systems, including Banner, BDM, and SAP reports, quickly mastering these niche systems.
- Developed sophisticated and efficient star schema-like connections in Power BI by integrating various data sources, enabling seamless navigation and enhanced decision-making for end users.
- Wrote complex SQL queries for Oracle databases, ensuring data integrity and accuracy.
- Developed dashboards and reports for international admissions, managing over 3,000 applications per cycle.
- Contributed to a full-stack GPA calculator app development environment using .NET framework.

Software Engineer (Odoo ERP Management)

Dec 2018 – June 2023

Sein Diamond Paints, Remote

- Led the transition from paper-based to ERP systems, improving data quality by 90%.
- Developed inventory management systems and e-commerce solutions.

Intern (Salesforce Application)

Sep 2014 - Mar 2015

National Eating Disorders Association, New York, NY

- Utilized Salesforce to manage databases and streamline client interactions.

Machine Learning Projects

Predicting 2024 Presidential Elections

Spring 2024

Drexel University, CS613-900 Final Project

[View Presentation](#) — [Read Paper](#) — [View Code](#) — [Run on Binder](#)

- Developed a neural network model to predict election outcomes with an 86% accuracy.
- Employed data cleaning, feature engineering, and dimensionality reduction techniques.
- Integrated the electoral college system to enhance model fairness and accuracy.
- Applied bias detection and mitigation strategies, improving the model's performance across different voter groups.

Automated Mapping of Neural Networks of Brain SEM Scans

Spring 2018

Biomedical Engineering Design Project

- Led a research team in developing a computational pipeline for analyzing electron microscope images of the brain.
- Designed and implemented machine learning models using Python and MATLAB for data analysis.
- Achieved significant insights into brain structure and neural connections through model outputs.

Latest Ongoing Projects

Improving Text-to-Image Generation with Enhanced Contextual Understanding

Conceptual Development Phase

Developing a novel text-to-image generation model with experience in the latest ML libraries, including PyTorch, Diffusion Models, and Transformer-based architectures. Focused on enhancing contextual understanding and image quality, evaluated through advanced metrics such as FID, IS, CLIP Score, LPIPS, and DreamSim. [View Research Paper](#)

Education

Drexel University, Philadelphia, PA

Expected June 2025

Master of Science in Computer Science

GPA: 3.91

Drexel University, Philadelphia, PA

Graduated June 2023

Bachelor of Science in General Studies

Certifications

Google Foundations of Project Management, Coursera, 2023