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 **October 2023 – Present**
University of South Florida, Tampa, FL

- 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.
- Designed and implemented star schema from scratch, integrating it into Power BI.
- 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