Steven Lasch

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Experience

Business Intelligence Developer | Erie Federal Credit Union — May 2024 – present
- ◇ Design actionable data visualizations and centralized dashboards for marketing and branch operations.
- ◇ Use industry standard data visualization software to present data insights to stakeholders.
- ◇ Ensure smooth ETL processing for the credit union's data.

Senior Data Analyst | Innovation Entente Lab — May 2023 – May 2024
- ◇ Assessed niche market demand through market analysis and recommended data-driven actions.
- ◇ Gained experience creating data visualizations and dashboards for clients.
- ◇ Conducted SEO analysis for small business websites to pinpoint areas for improvement.
- ◇ Assisted clients in implementing SEO recommendations, reducing latency by up to 300% and boosting results page rankings.

Data Scientist | Mercyhurst University CIRAT — Apr. 2022 – May 2024
- ◇ Data scientist team lead since Jan. 2024 for multiple projects.
- ◇ Created and disseminated data visualizations and reports to clients using Matplotlib and Pandas.
- ◇ Created interactive data visualizations and dashboards using Plotly and Pandas.

Data Scientist - *Contract* | Empower AI — Apr. 2022 – Apr. 2023
- ◇ Achieved 90% accuracy in legacy-to-modern code translation using pretrained Hugging Face transformers models.
- ◇ Standardize files from over 100 open-source GitHub repositories for machine learning training data.
- ◇ Developed a Postgres database. Experienced with adding values, joining relational databases, and user access management.

Education

M.Sc. – Computer Science | Georgia Institute of Technology — Sep. 2024 – present
- ◇ Machine learning specialization
- ◇ Taking courses on machine learning use in the financial industry

B.S. Data Science (GPA: 4.0) | Mercyhurst University — Aug. 2020 – May 2024
- ◇ Religious Studies Minor
- ◇ Honors Program

Skill Sets

Industry-Specific
- ◇ Gained experience in the financial sector working in the analytics department for a medium-sized local credit union.
- ◇ Master's coursework focusing on using AI in the financial sector (portfolio management/optimization, indicator analysis).

Languages
- ◇ Python, R, SQL, Git, LaTeX, HTML, JavaScript, CSS

Machine Learning and Big Data
- ◇ Hugging Face, PyTorch, fastai, numpy, pandas, Jupyter Notebooks, PySpark, MySQL, Snowflake, SparkSQL, Google BigQuery

Data Visualization
- ◇ PowerBI, Tableau, Marquis, various Python & R visualization libraries

Notable Projects

American Sign Language (ASL) to English translation | Mercyhurst University — Published 2023
- ◇ Published research on current applications of ASL to English to IEEE Xplore — DOI: 10.1109/AIBThings58340.2023.10291026.
- ◇ Collect, wrangle, and standardize unstructured data for machine learning.
- ◇ Employ transfer learning with Hugging Face for gloss to text translation.

Artificial Intelligence (AI) and Academics | Mercyhurst University — 2023–2024
- ◇ Lead developer for implementing a chatbot to answer univeristy-specific FAQ for multiple departments.
- ◇ Research ways to use AI solutions to enhance university curriculum.
- ◇ Develop programs to educate professors, students, and other faculty on when, where, and how to use AI as a tool.
- ◇ Assist in creating course content related to Ethics in AI.