

STEVEN LASCH

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Work Experience

Senior Data Analyst | NWPB Beehive Innovation Network

May 2023–present

- Created and disseminated data visualizations and reports to clients using Matplotlib and Pandas.
- Performed search engine optimization, competitor's analysis, target market demand, and demographics analyses to assist small business clientele.

CIRAT Data Scientist | Mercyhurst University

April 2022–present

- Perform database management using SSMS.
- Implement static analysis and code complexity software.
- Conduct language research on C and C++ linting software.

Data Scientist | Empower AI

April 2022–April 2023

- Finetuned pretrained transformers models to translate between legacy and modern programming languages using Hugging Face.
- Collect, wrangle, and standardize PowerBuilder files from open-source repositories for machine learning.
- Conduct language research on Powerbuilder, Cobol, Ada, and JavaScript.

Computer Science Tutor | Mercyhurst University

September 2021–December 2022

- Provide one-on-one instruction to students in courses involving data structures, data visualization, and machine learning using Python.
- Assist students in enhancing study habits, exam preparation, and critical-thinking.

Writing Consultant | Mercyhurst University

September 2021–May 2022

- Proofread, analyze, and critique student essays and research papers.
- Work with students to increase skills in writing professional research papers.

Technical Skills

Languages

- Python, R, SQL, Git
- \LaTeX , HTML, JavaScript, CSS

Machine Learning and Statistics

- Hugging Face, PyTorch, fastai
- Jupyter Notebooks, pandas, numpy, sklearn

Data Visualization and Big Data Analytics

- Plotly, matplotlib, seaborn, ggplot, D3, Tableau
- Apache Spark, SparkSQL, Google BigQuery
- MySQL, SSMS, PostgreSQL RDBMS

Education

Mercyhurst University

August 2020–May 2024 (*expected*)

GPA: 4.0

Bachelor of Science in Data Science

- Minor in Religious Studies
- Honors Program

Notable Projects

American Sign Language (ASL) to English translation

- Research current applications of ASL to English.
- 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

- Research ways to use AI solutions to enhance Mercyhurst 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.