LARS OSTERVOLD

LOstervold@dow.com | 918.845.3010 | [LinkedIn](https://www.linkedin.com/in/larsostervold/) | [GitHub](https://github.com/Lars-Ostervold)

SUMMARY

Highly analytical and results-driven Data Scientist adept at leveraging Python and SQL to extract actionable insights and develop compelling data visualizations. Proven ability to translate complex datasets into clear, concise reports, designing and deploying data-driven solutions that improved efficiency and informed strategic decision-making. Strong foundation in data analysis and visualization.

TECHNICAL SKILLS

Programming & Scripting: Python (6+ years), SQL, R

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Data Visualization, Data Wrangling

Machine Learning & Deep Learning: TensorFlow, PyTorch, scikit-learn

Cloud & DevOps: GCP, Azure, AWS

TECHNICAL EXPERIENCE

Senior Data Scientist | The Dow Chemical Company | April 2023–Present

- Developed and deployed deep learning models (TensorFlow, PyTorch) for molecule discovery, *reducing search time by 87%* and contributing to a patented innovation.
- Built and productionized AI-powered compliance chatbots (Python, Streamlit, OpenAI APIs), *reducing lookup times by 10+ hours per review*.
- Designed and deployed a $40MM NPV machine learning-driven customer web app (R Shiny, Python) with backend services deployed via Docker on Azure, *supporting 400+ users*.

Ph.D. Researcher | The Pennsylvania State University | January 2021–March 2023

- Developed Python algorithms for instrument data preprocessing, cleaning, transformation, and report generation—saving 3 hours per run and enhancing data reliability for experimental workflows.

PROJECTS

Retail Analytics Dashboard (Repo, Dashboard)

- Developed an interactive retail analytics dashboard with advanced forecasting using Python, XGBoost, TensorFlow, and Streamlit.

EDUCATION

Ph.D., Chemical Engineering (with focus on Machine Learning & Computational Modeling) | The Pennsylvania State University | 2023, GPA: 4.00

Continued Education : Machine Learning Certification (Coursera, 2025), Deep Learning Certification (Coursera, 2025), Data Structures and Algorithms Certification (Packt, 2025)