

# LARS OSTERVOLD

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## SUMMARY

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Highly accomplished Data Scientist with expertise in developing and deploying scalable AI models and data pipelines to drive significant business value. Seeking a Data Scientist III role.

## TECHNICAL SKILLS

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**Programming & Scripting:** Python (6+ years), SQL, R, JavaScript, Bash, FORTRAN, Linux

**Machine Learning & Deep Learning:** TensorFlow, PyTorch, scikit-learn, Neural Networks (CNNs, RNNs), Model Training/Tuning, Model Optimization, Model Fit Testing, Data Mining, Regression, A/B Testing, Clustering, Dimensionality Reduction

**Data Science & Engineering:** Pandas, NumPy, SciPy, ETL, Data Cleaning, Algorithm Optimization, Statistical Modeling, Descriptive & Inferential Statistics

**Dashboarding & Visualization:** Tableau, Streamlit, R Shiny

**Cloud & DevOps:** GCP, Azure, AWS, Docker, CI/CD pipelines, Azure Databricks, Cloud Data Services

## TECHNICAL EXPERIENCE

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

- Spearheaded the development and deployment of deep learning models (TensorFlow, PyTorch) for molecule discovery, reducing search time by 87% and contributing to a patented innovation in gas treatment.
- Architected and deployed a customer-facing web application (R Shiny frontend, Python/Docker/Azure Container Instances backend) to process user-defined synthesis and optimization requests, automate experimental design, and generate robotic synthesis instructions.
- Built and productionized AI-powered compliance chatbots (Python, Streamlit, OpenAI APIs), reducing lookup times by 10+ hours per review.

### Chief Technology Officer | LION Software | May 2024–March 2025

- Spearheaded the development and deployment of a scalable data visualization and analytics platform, ensuring high performance and reliability for 100+ users.

## PROJECTS

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### Retail Analytics Dashboard | [Repo](#), [Dashboard](#)

- Developed an interactive retail analytics dashboard with advanced forecasting, product analysis, customer segmentation, and market insights using Python, XGBoost, TensorFlow, and Streamlit.

### Baptized Technology | [Repo](#), [Website](#)

- Designed and deployed scalable full-stack (Next.js) AI chatbots using a Retrieval-Augmented Generation (RAG) stack and cloud-based NLP solutions, handling 600+ monthly queries.

## EDUCATION

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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 (Coursera, 2025)