





Ayub Sherif

LINKS

 Portfolio: ayubsherif.github.io
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SKILLS

</> Programming Languages

Python • SQL • R • C++ • MATLAB

Databases

Microsoft SQL Server • PostgreSQL • Microsoft Fabric

Analytics & Reporting

Power BI • Advanced Excel

Data Engineering

ETL Pipelines • PySpark • Spark SQL • Power Query

Data Science & Machine Learning

Pandas • NumPy • SciPy • Scikit-learn • MLlib • Matplotlib • Jupyter Notebook

Other Tools

Git • Jira • Tkinter • Power Automate

RELEVANT COURSES

- Linear Algebra
- Data Structures and Algorithms
- Numerical Methods (FDM/FVM)
- Reactor Physics
- Topics in Nuclear Physics
- Probability for Statistical Inference
- Advanced Statistical Inference

AWARDS

Top 10 National Rank

Ranked 10th nationwide in Libya's high school exit exam among 60,000+ students.

Full Ride Scholarship

Awarded a 4-year full scholarship from Libya's Ministry of Higher Education.

Tau Beta Pi

Inducted into the national engineering honor society for academic excellence.

Data Analyst II at Loeb Electric with a hybrid role spanning data analysis, engineering, and science. Adept at building BI solutions, designing Predictive Models, and automating analytics workflows. Currently pursuing a M.S. in Data Science. Combines scientific rigor with a strong business focus to deliver insights that drive real-world impact.

EXPERIENCE

LOEB ELECTRIC | DATA ANALYST II (TEAM LEAD)

Apr 2022 – Present

- Built an enterprise-grade data ecosystem by integrating the company's ERP and auxiliary systems into a centralized Fabric SQL Warehouse; developed versatile, department-specific Power BI Semantic Models for Sales, Purchasing, Inventory, Accounting, and more—enabling unified, real-time reporting across the organization.
- Predicted 30-day warehouse utilization by building a forecasting model using historical movement data and slotting logic—fed into Power BI for proactive space and labor planning.
- Developed a supervised ML model to auto-classify e-commerce products, eliminating manual tagging and improving catalog quality.
- Designed a comprehensive Power BI app for the Direct Through Stock program that tracked product locations, shelf life, and customer behavior; included alerts for expiring items and revealed hidden storage costs—driving a shift from project-wide markup to more accurate itemized pricing.
- Led a warehouse optimization initiative to minimize picker travel distance and maximizing replenishment Efficiency.

SERVA ENERGY | SIGNAL PROCESSING ENGINEER (CONTRACT)

Aug 2021 – May 2022

- Designed a real-time denoising filter for 1.8 MS/s gamma-ray signals using FFT-based template matching, improving signal clarity and reducing storage.
- Enhanced spectral resolution by implementing SNIP-based background subtraction and baseline restoration and pile-up correction algorithms.

AML RIGHTSOURCE | ASSOCIATE ANALYST

Oct 2021 – Apr 2022

- Leveraged pattern recognition and data analysis frameworks to identify red flags related to money laundering and financial crime.

THE OHIO STATE UNIVERSITY | UNDERGRADUATE RESEARCH ASSISTANT

Fall 2016 – Spring 2018

- Evaluated Perovskite Crystal performance for gamma-ray detection by analyzing spectral data.

SELECTED PROJECTS

WAREHOUSE UTILIZATION FORECASTING

PRODUCT TAXONOMY CLASSIFIER

GAMMA SPECTROSCOPY DENOISING

INTERACTIVE FOURIER SCRIBBLE

EDUCATION

UNIVERSITY OF COLORADO BOULDER | JAN 2025 - DEC 2026

M.S. in Data Science

THE OHIO STATE UNIVERSITY | JAN 2020 – DEC 2024

M.S in Nuclear Engineering

THE OHIO STATE UNIVERSITY | AUG 2015 – MAY 2019

B.Sc. in Engineering Physics