

LIAM FRANK

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Kansas City, MO

Technical Skills

- Python
- SQL
- R
- Tableau
- Apache Spark
- Azure

Work Experience

JUNIOR DATA SCIENTIST – SAIM – Overland Park, KS January 2025 – Present

- Work on a cross-functional team with Software, IoT and Database Engineers within the B2B SAAS space
- Designed and deployed a transfer learning-based convolution neural network to label fuel facility assets in AutoCAD drawings, increasing previous model accuracy by over 20% to 98%, automating previously required manual data labelling
- Developed an autoencoder model to detect anomalies in high frequency centrifugal pump vibration distributions, enabling predictive maintenance capabilities and early fault detection
- Deployed an Azure Stream Analytics pipeline to over 50 commercial aviation fuel farms nationwide to monitor real-time sensor data for anomalies and quality issues, improving system reliability and detecting potential faulty sensors
- Designed and implemented an automated hiring forecast model and reporting system that analyzed historical project data, discipline-specific utilization rates, and future projects to generate a strategic hiring plan and determine optimal staffing levels for each engineering discipline

DATA SCIENCE INTERN – SAIM – Overland Park, KS May 2024 – August 2024

- Developed an ensemble time series forecast comprised of an ARIMA, Holt's Exponential Smoothing, and definite integration for predicting remaining useful life of fuel filter vessels using differential pressure data
- Researched and tested the use of unsupervised machine learning algorithms for anomaly detection for centrifugal fuel pumps
- Worked alongside Mechanical Engineers aiding in developing and revising pump train sensor requirements to effectively supplement predictive maintenance initiatives of SAIM and Argus Consulting

Education

MASTER OF SCIENCE IN DATA SCIENCE – Graceland University August 2023 – December 2025
GPA: 4.0 / 4.0

BACHELOR OF SCIENCE IN DATA SCIENCE – Graceland University August 2021 – December 2024
BACHELOR OF SCIENCE IN MATHEMATICS
GPA: 3.9 / 4.0