Quinn Meyer

PROFESSIONAL SUMMARY

Data Scientist with a strong mathematical background and 4+ years' experience using predictive modeling, data processing, and data mining algorithms to solve challenging engineering problems. Experienced in extracting insights, visualizing, and presenting results from complex data to drive data driven solutions for various business needs.

EMPLOYMENT & EXPERIENCE

Aptiv — Troy, MI
Image Scientist — September 2018 – April 2022
Aptiv is a global automotive technology company that develops safer, greener and more connected solutions enabling the future of mobility

- Used k-nearest neighbors to predict cameras' optical performance in manufacturing with 80 percent accuracy based on randomly sampled environmental data to reduce manufacturing scrap by 10 percent
- Applied k-means clustering on camera alignment data to reduce key alignment issues by 60 percent that were causing cameras to fail end of line tests
- Designed and trained custom deep learning algorithms using MATLAB and Tensorflow/Keras YOLOv3 to detect and locate camera targets in highly distorted raw images
- Applied six sigma principles to analyze optical test data to ensure robustness in the high-volume manufacturing process
- Implemented a novel white paper algorithm in Python to test sensor perceptibility using speckle interferometry and the Fourier transform
- Lead developer of Aptiv's custom intrinsic calibration and validation software that was used to calibrate cameras to detect objects with an accuracy of 0.1 millimeters at an object range of 20 meters
- Led the launch of Aptiv's 5-million-dollar intrinsic calibration manufacturing process as a critical path in under 6 months meeting two essential customer deadlines by working with a global internal team and working with two different suppliers

Rolls-Royce — West Lafayette, IN
Capstone Project — Spring 2018
Rolls-Royce is a pioneer of cutting-edge technologies in aircraft design that deliver clean, safe and competitive solutions to meet the planet's vital power needs

- Worked with a team of four engineers to design, source, fabricate, code, and launch a robust automated test fixture for simulating the forces distributed onto a jet turbine in under six months
- Deployed the project 25 percent under budget and ahead of scheduling with the text fixture currently being used in the Rolls-Royce research and development facility in West Lafayette

EDUCATION

Purdue University
West Lafayette, IN
Bachelor of Science in Mechanical Engineering
2014-2018

Western Governor's University
Salt Lake City, UT
Master of Science in Data Analytics
Graduated October 2022

SKILLS

Programming Languages: Python, R, SQL (Postgres), MATLAB
Python Scientific Packages: Tensorflow, Keras, Jupyter, Numpy, Pandas, Scikit-Learn, Seaborn, OpenCV, Pillow, Plotly, Matplotlib
Supervised Machine Learning: Linear and logistic regression, decision trees, random forest, support vector machines, Naïve Bayes, K-nearest neighbor
Unsupervised Machine Learning: K-means clustering, Principal Component Analysis, Singular Value Decomposition, Deep Learning
Tools & Methodologies: Visual Studio, Excel, Tableau, Anaconda, Git, Agile, Jira, DFSS, ETL, Optimization, Computer Vision, Time Series Analysis and Forecasting, Natural Language Processing