**Quinn Meyer**

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**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**

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| 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

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| 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**

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| **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