

# LUCAS SEE, M.S.

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## CONTACT

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509-637-6842

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## SKILLS

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Programming:

- Python( Numpy, Pandas, SKlearn, Tensorflow)
- SQL

- R

Tools:

- GIT
- Docker
- Kubernetes
- Azure ML Studio
- Power BI, Tableau
- Apache Pyspark

Techniques:

- Machine Learning
- Statistical Analysis
- Time Series Forecasting

## EDUCATION

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University of Wisconsin,  
GB

**2020-2023**

Master's of Science(MS)  
in Data Science

University of Washington,  
Seattle

**2013-2017**

Bachelor's of Science(BS)  
in Industrial Engineering

## PROFILE

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Data Science professional with 4 years' experience applying statistical analysis and predictive analytics to drive business results. Broad experience in Python, R, and SQL with a proven track record of applying ML solutions to business problems. Interested in solving problems in the supply chain area.

## EXPERIENCE

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Functional Area Manufacturing Engineer, Intel

**May 2022 - Present**

- Developed analytic model for Test Wafer Forecasting using SQL and Power BI. Drove 5% reduction in Test Wafers and \$11M cost savings
- Developed Kmeans clustering approach to tool performance evaluation, deployed with Kubeflow, resulted in 4% accuracy increase over previous method
- Led team developing standardized tool performance reporting system resulting in \$200k annual savings
- Developed Supervised Machine Learning (Random Forest regressor) to allow inference on tool performance, driving \$4M savings
- Designed high dimension anomaly detection app for Factory Outlier Detection using Pandas, Sklearn, and Dash deployed on premise server

LTD Industrial Engineer, Intel

**July 2019 – April 2022**

- Developed capacity models to define tool performance and forecast capital requirements resulting in \$10M cost savings
- Produced Power BI-based capacity forecasting model combining multiple data sources and providing install priorities for \$50M construction program
- Developed CPLEX-based optimization model to identify optimal chamber configurations, saving \$4.5M

Manufacturing Engineer, Genie Corp.

**June 2017 – June 2019**

- Managed development and implementation of industrial control system, leading to reduction in core quality defect by 80%
- Developed Data Analysis tools to track production issues and drive resolutions, reducing reoccurrence by 15%

## Projects

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**Master's Thesis:** Machine Learning for Airline Delay Prediction; Investigated causes of commercial airline delays and used deep learning via Tensorflow to develop model capable of predicting future delays with 91% accuracy