

JON LINDENAUER

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SKILLS

Languages: Python, R, SAS, SQL, Linux/Unix.

Libraries: sklearn, beautiful soup, statsmodels, pandas, numpy, nltk, keras, dplyr, lm, glmnet, caret, forecast.

Data Visualization: ggplot2, matplotlib, seaborn, plotly, Tableau, Streamlit.io, Excel charts

Cloud/ Data Storage: AWS, Azure, Google Cloud.

EXPERIENCE

Data Scientist, Metis, May 2020 to current.

- *12-week bootcamp.*

Project-oriented, hands-on accredited program that emphasizes data collection and cleaning, visualization, statistical modeling, machine learning, and communication of project methodology and results.

Data Scientist, Terex, Redmond, WA, November 2018 to April 2020.

- *Sales Data Pipeline and Forecasting.*

Sales data loaded from Oracle using SQL into a CSV file. Python was used for cleaning, merging and calculations with pricing data. The data upload process was automated in Python. Projects reduced cycle time from 8 days to 4 hours. Forecasts models written in R (ARIMA, Holt-Winters, Dynamic Regression). FRED economic data loaded from JSON format. The forecast accuracy was increase from ~50% to over 90%.

Data Scientist, Nippon Dynawave Packaging, Longview, WA, May 2018 to November 2018.

- *Color Mapping Paper Sheet Moisture and Basis Weight to Operator Display*

Extracted data from a moisture/basis weight measurement scanner (CSV format) and transformed to color scale using Python. Real-time stream. Reduced non-conformities by almost 33%.

Senior Statistician / Manager, Weyerhaeuser (WY) and International Paper (IP), Federal Way, WA, June 1997 to April 2018 (IP acquired WY in Nov 2016).

- *Predictive Modeling and Design of Experiments (DOE).*

The result of the prediction model was a two-thirds reduction in quality testing estimated to save \$3,000/day. A mill designed experiment was run to discover the key process variables. The LASSO method implemented in R and SAS was used to analyze the data and create a real-time product quality prediction model.²

- *Data Mining and Predictive Modeling.*

Avoidance of \$7-\$8 million/week in lost production and a \$400K annual reduction in chemical cost. The issue was high bacteria counts at a mill. Responsible for all ETL, cleaning and validation of the data using SQL and SAS. Data mining using machine learning logistic regression with R and SAS.

- *Data Mining and Predictive Modeling.*

A sheet break machine learning model (SQL, SAS, Simca) and SPC charts were used at a mill to increase revenue \$2.5 to \$3 million annually, reduced break 60% and increase in production rate 15%.¹

- *Business Lean Six Sigma Manager (2015-2018).*

Manager of the LSS Operational Excellence team for the WY Cellulose Fibers business. Successfully built the program from the ground up, highlighted by the implementation plan for manufacturing sector.

- *Data Mining and Machine Learning.*

Reduced cost by \$400K to \$500K annually. Machine learning classification and regression trees on shear load data. Discovered that new product changes with a specific product wood species led to a higher failure rate.³

EDUCATION and CERTIFICATIONS

Master of Science in Operations Research and Statistics, Rensselaer Polytechnic Institute, Troy, NY.

Bachelor of Science in Economics, University at Albany, Albany, NY.

Lean Six Sigma Black Belt, Lean Methods (was BMGI).

Certified Quality Engineer (#28171), American Society for Quality, Milwaukee, WI (current).

SELECTED PAPERS AND PRESENTATIONS

¹"Pulp Machine Sheet Break Reduction". 2016 Fall Technical Conference, Minneapolis, MN, 2016.

²"Real-Time Predictive Modeling of Key Quality Characteristics Using Regularized Regression: SAS® Procedures GLMSELECT and LASSO". Conference Proceedings 2016 SAS Global Forum, Las Vegas, NV, 2016.

³"Statistical Analysis of Failure Data for Wooden I-Joists". 2014 American Statistical Association Joint Research Conference, Seattle, WA, 2014.