Michael T. Soukup

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Projects

Chicago Business Intelligence Dashboard

Created Python Flask web app with PostgreSQL backend housing 3MM+ records to forecast Covid-19 transmission.

NCAA Men's Basketball Prediction Minimum Viable Project

Developed NCAA March Madness bracket predictor app in GCP with Google App Engine, AutoML, BigQuery, and controlled with GitHub Actions for CI/CD.

Modern Portfolio Theory Applied

Used Linear Programming techniques to evaluate how pragmatic Modern Portfolio Theory is for modern investing.

Work Experience

3M, Maplewood, Minnesota

Sr. Manufacturing Technology Engineer, August 2019 – Present

- Leading potential $600MM New Product Introduction program to replace need for solventless coating and OEM paint booths within the automotive industry.
- Directe engineering change management activities to ensure business continuity for $72.7MM aerospace adhesive films and primers product portfolio.
- Utilized SQL, Python, and PowerBI to create automated product reporting dashboards to streamline manufacturing information access.
- Volunteered time to Valley, NE plant during Covid-19 pandemic to increase reusable respirator production by 40%.

Product Quality Engineer, January 2017 – August 2019

- Provided Quality and Product Engineering support for the $550MM attachment product portfolio.
- Technical lead for a $110MM weatherstrip product portfolio that experienced a $2.1MM global quality crisis and won the Corporate Quality Achievement Award for eliminating complaints.
- Re-designed packaging solution and value stream for AASD adhesion promoters increasing throughput 5x, eliminating quality complaints, and improving customer experience

Bemis Company, Neenah, Wisconsin

Research and Development Co-op, January 2015 – August 2015

- Drove development of non-PVC blister packaging films in healthcare packaging group.
- Developed test methods to further quantify and analyze thermoforming processes.

Research-Garand Group, University of Wisconsin-Madison (Department of Chemistry)

Undergraduate Researcher, January 2012 – December 2013

- Published in *The Journal of Physical Chemistry A* for work done on glycine hydrogen bonds.

Education

Northwestern University, Master of Science in Data Science – Data Engineering Specialization, *Anticipated Graduation December 2022*, *GPA 4.0*

University of Wisconsin-Madison, Bachelors of Science in Chemical Engineering, December 2016, *GPA 4.0*

Skills

Python, SQL, R, Statistics, Data Visualization, GCP, PowerBI, Excel, ML/AI, CI/CD, Scrum, Git

Achievements

3M Covid Mission Critical Team Member
SSAC 2020 DraftKings Sports Gaming Innovation Finalist
3M 2019 Quality Achievement Award
Lean Six Sigma Green Belt