

Townsend Saunders III

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Data Scientist II

Reliance Inc.

Feb 2019 – Sep 2023

Inventory Mastering

- Pioneered a unified Item Master solution, streamlining inventory management across 50+ subsidiaries, allowing for inventory sharing, improved efficiency, and reduced customer churn.
- Collaborated with stakeholders to deliver a standard inventory labeling system using Agile workflows, Python, Spark, AWS tools, Snowflake, and Natural Language Processing (NLP) Machine Learning techniques.
- Automated real-time model optimization, deployment, and scalability via AWS Sagemaker.

Anomaly Detection and Predictive Maintenance

- Spearheaded an anomaly detection system for warehouse machinery, preventing costly breakdowns and hazards.
- Interfaced with supervisors, creating real-time alert systems based on critical telemetry data from 30+ Bosch XDK devices.
- Utilized AWS for data streaming, analysis, and LSTM-based TensorFlow models to predict anomalies, ensuring safety and machine longevity.
- The initiative preempted multiple breakdowns, expanding its application across various warehouses.

Sales Forecasting Web Application

- Designed a serverless Data Lab web app using AWS tools, Docker, GitHub, Sagemaker, and Python.
- Developed a UI for non-tech users to query our Data Warehouse via Snowflake's Snowpark.
- Established an ML pipeline for time-series data, with visualizations using Streamlit, Plotly, and other tools.
- Enabled large-scale forecasting for 50 companies and created a Data Lake integrating external financial data.

CTO / Head of Design

Adomly

Sep 2023 - Present

Gymnastics Rings Product Launch

- Built Adomly's online retail web app for 2024 Olympic team member, Dominique Parrish, and led the product design of her signature product: Adomly Gymnastics Rings.
- Made use of Dall-E 3 for product images and assets, allowing for agile smoke tests and market research without the need for a physical product.
- Designed a set of "Blue Ocean" product features aimed at minimizing competition and maximizing untapped market space.
- Negotiated a 30% contract discount with a 3rd party Engineering and Product Design firm saving precious capital while ensuring the development of a safe and manufacturable design.

University of California, Berkeley

College of Engineering

Aug 2015 – Aug 2019

B.S. Engineering Mathematics and Statistics

- Computer Science Concentration

Skills

Programming Languages & Tools

- Python
- SQL
- Docker
- GitHub
- AWS
- Snowflake
- Streamlit

Machine Learning

- TensorFlow
- PyTorch
- Numpy
- Open AI API/ Chat GPT/ GPT4
- NLP (BERT, Transformers, Hugging Face)
- Pandas
- Scikit-Learn