

Taylor Grimm

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Experience

Enterprise Mobility

St. Louis, MO (Remote)

Data Scientist

December 2024 - Present

- Developed deep learning models for global company-wide application using Tensorflow and PyTorch to forecast daily and hourly rental metrics across 8500+ branches using >400M rows (1TB+) of data.
- Enhanced existing deep learning forecasting models, achieving ~10-30% reduction in short-term forecast errors and 5x computation time savings by implementing transfer learning and a weighted sampling approach to utilize additional data while reducing the required training data size.
- Improved accuracy of existing NLP models by ~3% by replacing existing CNN-based models with finetuned transformers (HuggingFace).
- Developed a CatBoost model to accurately predict extremely rare negative rental outcomes (<0.005% overall occurrence rate).
- Maintain communication across departments to relay project status, manage expectations, and ensure timely delivery of data-driven solutions.
- Manage SQL and PySpark data pipelines, model deployment/updates, and job workflows with MLflow and Databricks.
- Regularly construct queries, tables, plots, and interactive dashboards/apps to identify key data issues using various tools and technologies (e.g., Python, PySpark, SQL, Dash, R, RShiny)

Baylor University

Waco, TX

Statistics Graduate Assistant

August 2021 - December 2024

- Collaborated with interdisciplinary experts to comprehend data and processes, perform robust analyses, and effectively communicate results.
- Created novel statistical models to detect anomalies in water/wastewater treatment data, allowing for easier decentralized operation of facilities.
- Developed interactive R Shiny applications to assist in exploratory data analysis and model evaluation.
- Provided statistical consulting services to clients across diverse disciplines, delivering actionable insights and quality reports.
- Assisted in the development of a data science workshop (using R) for water and wastewater treatment professionals.
- Created practice problems and solutions for topics ranging from data wrangling and visualization to statistical and machine learning models.

Skills

Python: pandas, TensorFlow (Keras), PyTorch (Lightning), transformers (HuggingFace), plotnine, seaborn, plotly, scikit-learn, Jupyter, Dash

R: tidyverse (dplyr, ggplot2, etc.), TensorFlow (Keras), shiny, RMarkdown/Quarto, rstan, rjags, caret, tidymodels, torch

Technology: SQL, Apache Spark (PySpark, sparklyr), Databricks, MLflow, Azure, SAS, Git/GitHub

Statistics and Machine Learning: statistical modeling, regression, classification, deep learning, PCA, random forests, boosting (e.g., XGBoost), SVM, hypothesis testing, mixed models, Bayesian methods

Education

Baylor University

Waco, TX

Ph.D. in Statistics, GPA: 3.97/4.00

May 2025

- Dissertation: "Fault Detection in Multivariate Processes: Handling Autocorrelation, Contamination, and Small Sample Sizes in Engineered Systems"

Areas of expertise: statistical process control (anomaly detection), machine learning, time series, multivariate statistics

Relevant Coursework: Advanced data-driven methods • Multivariate analysis • High-dimensional data analysis • Time series • Bayesian methods

Baylor University

Waco, TX

M.S. in Statistics, GPA: 3.94/4.00

December 2022

Brigham Young University

Provo, UT

B.S. in Statistical Science, minor in Mathematics, GPA: 3.99/4.00

April 2021