Tyler Binning

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Education

Bachelor of Science in Data Science Sept. 2022 - Dec 2025
Brigham Young University-Idaho Rexburg, ID

- Vice President, Data Science Society

Skills

Machine Learning: Scikit-learn, XGBoost, TensorFlow, PyTorch, Transformers, PEFT

Statistical Models: Linear Regression, Logistic Regression, ANOVA, T- tests, ARIMA, SARIMA

Data Visualization: PowerBI, Ggplot, Plotly, Streamlit, Dash, Matplotlib, Tableau

Programming Languages: Python, R, SQL

Data Engineering & Big Data Tools: MySQL, PySpark, Databricks, Docker, Google Cloud, AWS

Soft Skills: Communication, Problem-Solving, Adaptability, Team Collaboration

Professional Experience

Data Science & Workflow Automation Intern Aug. 2025 – Present
TruPorch Homes Remote

- Built automated **n8n workflows** to scrape competitor pricing and review data, applying **sentiment analysis** to customer feedback for actionable market insights.
- Integrated competitor intelligence into a **Metabase dashboard**, enabling real-time comparison of pricing strategies and customer sentiment trends.
- Applied **natural language processing (NLP)** to classify and quantify review sentiment, informing data-driven decisions in short-term rental pricing.
- Streamlined competitive analysis by connecting multiple data sources into a **centralized business intelligence system**, reducing manual research time.

Data Science Intern Jul. 2025 – Present
Planck AI Remote

- Building **NLP** models with **spaCy**, including clause tagging and training **SpanCat** for clause-type recognition
- Applying **TF-IDF** with **Logistic Regression** to classify legal contract clauses
- Created **a Streamli**t interface for uploading and summarizing documents
- Preparing **LoRA fine-tuning** projects for contract summarization and question answering

Artificial Intelligence Engineering Consultant Jan. 2025 – Apr. 2025
Statistics & Data Science Consulting | Brigham Young University – Idaho Rexburg, ID

- **Collaborated** within a team to **design and develop** an AI-powered Teaching Assistant, integrating **generative AI** to provide course guidance and answer student questions.
- **Integrated** course materials into the AI Teaching Assistant using a Retrieval-Augmented Generation (**RAG**) model, ensuring accurate, context-aware responses to enhance student learning.
- **Worked with faculty** to refine **AI-generated insights**, ensuring alignment with academic standards and improving instructional effectiveness.