**Todd Jordan** website: <https://tnjordan.github.io/>

**Senior Data Scientist**

**10+ years of experience, 5 in data science, with a master’s in data science.**

**Most Recent Experience**

Senior Data Scientist 2021 - Present

PACCAR, a Fortune 200 Company Remote & Seattle

**Business Value**

* Saved 1.2 million per year in warranty claims by flagging atypical parts and labor costs.
* 25% increase in throughput of warranty claim processing through AI automation, enabling claim analysts to focus on more expensive and complex warranty claims.
* Accelerated loan application processing leveraging machine learning predictions, saving $300k per year while standardizing loans rates based on customer profiles.
* Improved cold lead generation for used truck sales by 5x by refining lead generation models.
* Presented quarterly updates on model development and performance to executive stakeholders.

**Data Science**

* Improved warranty processing efficiency through automation of claims identified as low risk and flagging portions of claims for manual review that were identified as atypical.
* Led Paccar Financial data science projects: predicting interest rates, predicting vehicle sale prices, and identifying similar vehicles in inventory.
* Conducted drivetrain reliability analysis using Cox Proportional Hazards and Weibull distributions, building a Monte Carlo simulation to model potential failures and estimate liabilities.
* Led a DAF division workshop in the Netherlands on data science and MLOps best practices, enabling early detection of critical component failures.

**Machine Learning Operations**

* Developed CI/CD pipelines in GitHub Actions for model deployments and retrainings. Pipelines automated the training, version control, and containerization of models for cloud deployment.
* Developed FastAPI endpoints integrating ML models with business systems, logged API usage and uploaded logs into Snowflake for Tableau dashboards.
* Oversaw deployments of machine learning solutions using Kafka streaming and VertexAI.

**Team Leader**

* Reviewed code and work from junior team members, setting development and coding standards.
* Led weekly data science team discussions and debugging sessions.
* GitHub administrator for Paccar’s advanced analytics organization.
* Organized and led annual data science workshops for the analytics team.
* Won the 2022 and 2023 IT department hackathons, developing Kafka-based data-streaming solutions.

**Education**

* Master of Science in Analytics & Data Science – Georgia Tech - 2024
* Master of Science in Mechanical Engineering – NC State - 2013
* Bachelor of Science in Aerospace Engineering – NC State - 2011

**Additional Experience**

**Avionics Software Verification Engineer, HCL America**

Performed and documented manual and automated software testing on aircraft fire suppression systems to ensure compliance with FAA regulations.

**Macha Central Basic School**

Teacher for grade eight math and science and ran an afterschool computer club.

**Computer Teacher, Chodort**

Taught computer skills, ranging from first time computer users to introduction to programming.

Developed and ran accounting reporting for school.

**Patent Examiner, United State Patent Office**

Determined if a patent should be granted for an invention.

**Skills**:

* **Programming**: Python, SQL, Bash, Git, VBA, Java, Matlab, Fortran, R
* **Data Science**: Machine Learning, Natural Language Processing, LLMs, Generative AI, Deep Learning, Big Data Analytics, Time Series Analysis, Simulation, Bayesian Statistics, Regression, Computer Vision, Business Analytics, Tableau
* **MLOps**: GitHub Actions, Docker, GCP, FastAPI, Linux/WSL2, DVC, AWS