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.

Chodort – Computer Teacher

Taught computer skills, ranging from first time computer users to introduction to programming. Developed and ran accounting reporting for school.

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