TODD BERTSCH JR.

Data Analyst

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31382 Amberview Bend, Wesley Chapel, FL

SUMMARY

Data Analyst with a passion for transforming raw data into actionable insights and building predictive systems that deliver real-world results. Experienced in developing full-stack ML and analytics solutions, including a self-built platform achieving 5%–20% ROI. I thrive on debugging, problem-solving, and learning from every iteration of the process. Proficient in Python, SQL, and MLOps, and driven to apply analytical thinking to create measurable impact.

EDUCATION

University of Central Florida
Master's Degree in Data Science and Statistics
2020 – 2022

University of Florida
Bachelor's Degree in Statistics
Minor: Mathematics
2017 – 2020

SKILLS

Category	Skills
Programming Languages	Python (Advanced), R SQL (PostgreSQL)
Core Libraries	Pandas, NumPy, Scikit-learn, Seaborn, Pyarrow
Machine Learning	XGBoost, Regression, Classification, Feature Engineering, Model Validation, Overfitting Diagnostics
Statistical Analysis	Predictive Modeling, Hypothesis Testing, A/B Testing
Data Engineering	Data Validation, Data Transformation, Data Cleaning
Databases & Tools	PostgreSQL, Redis, Celery, Git, Jupyter/VS Code
Cloud & Deployment	AWS S3, Render.com, MLOps, Docker

PROFESSIONAL EXPERIENCE

Founder / Lead Data Analyst — Sports Prediction Platform (Self-Built Project) Boostyourbets.com

BoostYourBets LLC | Jan. 2025 - Present

- **Full-Stack Predictive Analytics Development:** Designed and deployed a scalable analytics platform processing thousands of data points daily, generating consistent 5%–20% ROI through actionable insights.
- **Machine Learning & Feature Engineering:** Built 1000+ predictive features from real-time APIs and developed CatBoost/XGBoost models optimized for accuracy, reliability, and ROI.
- **Data Pipeline Automation:** Engineered automated ETL workflows using Python, pandas, pyarrow, and PostgreSQL, streamlining data collection, transformation, and storage.
- **MLOps & Deployment:** Managed production deployments via Render.com, Celery, and Redis with automated retraining, monitoring, and model version control.
- **Statistical Analysis & Bias Prevention:** Applied rigorous validation, overfitting diagnostics, and bias mitigation strategies to strengthen model generalization and trustworthiness.

AI Trainer (Python Code Specialist)

DataAnnotation | Feb. 2024 - Dec. 2024

- **Code Analysis & ML Application:** Specialized in developing model code generation and application of machine learning techniques. Conducted meticulous line-by-line code analysis to pinpoint and resolve errors in AI model planning and execution, contributing to the development of robust AI features.
- **Data Analysis & Visualization Training:** Successfully trained models through interactive, turn-based conversations to perform accurate data analysis and create clear, appealing data visualizations.
- **Content Refinement & Insight Generation:** Evaluated and refined complex technical content for clarity and relevance, generating precise insights to empower models to deliver high-value information to end-users.

Mathematics Teacher

Wiregrass Ranch High School | Aug. 2022 - Present

- **Organization & Student Engagement:** Responsible for daily instruction and assessment of over 150 young adults. Designed captivating and easily understandable lessons that distilled complex mathematical concepts for diverse student abilities and learning styles.
- **Cross-Functional Communication:** Developed expertise in clear communication and attentive listening, adeptly handling both large classroom instruction and small group dynamics to ensure an inclusive and effective learning experience.
- **Varsity Girls' Tennis Coach:** 1x Regional Champions, 2x District Champions. My proudest achievement in tennis was creating a positive environment while developing athletic excellence.