

# Glenn Dalbey

## Data Science & Analytics Professional

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## Professional Summary

Data Science professional with Masters in Data Science and proven expertise in AI/ML implementation. Demonstrated success deploying production healthcare systems with 93.8% accuracy and developing advanced predictive models. Strong background in multi-modal AI, deep learning, and MLOps with experience serving real-world applications. Currently providing data science consulting services with focus on analytics and machine learning solutions.

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## Core Technical Skills

**Programming Languages:** Python, SQL, TypeScript/JavaScript, HTML/CSS

**Machine Learning & AI:** PyTorch, TensorFlow/Keras, Scikit-learn, XGBoost, Hugging Face Transformers

**Data Science Libraries:** Pandas, NumPy, OpenCV, Plotly, Boto3

**Cloud & Deployment:** AWS (S3), Flask, Gunicorn, Production Deployment

**Specializations:** Computer Vision, Natural Language Processing, Multi-modal AI, Model Ensemble Techniques

**Development Tools:** Git/GitHub, Jupyter Notebooks, Conda/Pip

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## Selected Projects

**Apollo Healthcare Connect - Multi-modal AI Healthcare Triage System** - Deployed production healthcare system serving global users at apollohealthcareconnect.com - Achieved 93.8% combined multi-modal accuracy and 98.0% burn classification accuracy - Implemented 5-model ensemble architecture with advanced loss functions and safety protocols - Technologies: PyTorch, TensorFlow, Flask, DistilBERT, AWS S3

**NFL Rookie Performance Prediction Model** - Developed advanced machine learning model with 90.9% ROC AUC on future data - Reduced overfitting gap from 18.5% to 0.4% through feature optimization and temporal validation - Implemented production-ready model for NFL draft analysis - Technologies: Python, Scikit-learn, XGBoost, Pandas

**TandemAI - LLM Ensemble Orchestration Platform** - Built local-first AI model collaboration system with 4 orchestration modes - Designed universal provider support for multiple AI platforms (Ollama, OpenAI, Anthropic) - Implemented real-time monitoring and cross-platform deployment capabilities - Technologies: TypeScript, Node.js, Multiple AI APIs

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## Professional Experience

**Freelance Data Science Consultant** | *Current* Thompson Parking and Consultants - Provide data science and analytics consulting services - Develop custom analytical solutions and machine learning models - Support business intelligence and data-driven decision making

**Previous Professional Experience** John Deere - Applied data science and analytical skills in corporate environment

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## Education

**Master of Science in Data Science** | *August 2025* Western Governors University - Capstone: Multi-modal AI healthcare triage system (production deployed)

**Bachelor of Science in Data Analytics** Western Governors University - Capstone: NFL Rookie Wide Receiver Performance Prediction Model

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## Certifications & Achievements

- Production AI System Deployment (Healthcare domain)
  - Advanced Machine Learning Model Development
  - Multi-modal AI and Deep Learning Implementation
  - MLOps and Production System Management
  - Open Source Contributions (14+ GitHub repositories)
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## Key Accomplishments

- Deployed live healthcare AI system serving global users with sub-second response times
- Achieved 90.9% ROC AUC on temporal validation for sports analytics prediction
- Successfully handled extreme class imbalance (29.7:1 ratio) in medical imaging

- Developed production-ready ensemble models with advanced safety protocols
- Created scalable ML pipelines and APIs for real-world applications