Glenn Dalbey Resume

# GLENN DALBEY

## Data Science & Analytics Professional

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### PROFESSIONAL SUMMARY

Results-driven Data Science professional with MS in Data Science and proven expertise in production AI/ML systems. Successfully deployed healthcare AI serving global users with 93.8% accuracy and sub-second response times. Demonstrated success in advanced predictive modeling (90.9% ROC AUC), multi-modal AI, and MLOps. Combines technical expertise with 15+ years of operational excellence and continuous improvement leadership.

### TECHNICAL SKILLS

**Programming:** Python (Expert), R, SQL, TypeScript, JavaScript, C++

**ML & AI:** PyTorch, TensorFlow, scikit-learn, XGBoost, Hugging Face, DistilBERT

**Data Science:** Pandas, NumPy, Tableau, Statistical Analysis, Predictive Modeling

**Cloud & Web:** AWS (Certified), PostgreSQL, Flask, FastAPI, React, Docker

**Specializations:** Computer Vision, NLP, Multi-modal AI, Healthcare AI, MLOps

### FEATURED PROJECTS

#### **Apollo Healthcare Connect** | apollohealthcareconnect.com

*Production Multi-modal AI Healthcare Triage System | MS Capstone*

* Deployed live healthcare AI system serving global users with 93.8% accuracy and sub-second response
* Implemented 5-model ensemble combining DistilBERT (NLP) and CNNs (Computer Vision)
* Successfully handled extreme class imbalance (29.7:1) with advanced loss functions
* Built production pipeline with Flask API, AWS S3 integration, and safety protocols

#### **TandemAI - LLM Ensemble Orchestration**

*Local-First AI Model Collaboration System | github.com/XxRemsteelexX/TandemAI*

* Built platform enabling multiple LLMs to collaborate through 4 orchestration modes
* Designed universal provider support for 10+ platforms (OpenAI, Anthropic, Ollama, etc.)
* Implemented real-time streaming, conversation history, and privacy-first architecture

#### **NFL Rookie Performance Prediction**

*Advanced ML Analysis | BS Capstone | github.com/XxRemsteelexX/NFL\_Rookie\_WR\_1K\_Analysis*

* Achieved 90.9% ROC AUC on temporal validation for predicting 1000+ yard seasons
* Reduced overfitting from 18.5% to 0.4% through feature optimization (46→20 features)
* Created production-ready ensemble model with comprehensive data pipeline (2006-2024)

### PROFESSIONAL EXPERIENCE

#### **Freelance Data Science Consultant** | Thompson Parking & Mobility Consultants

*Current*

* Develop AI-powered Excel analytics platform enabling natural language data queries
* Design custom analytical solutions and machine learning models for client challenges
* Support data-driven decision making through advanced analytics and predictive modeling

#### **Continuous Improvement Leader & Material Specialist** | John Deere, Waterloo Works & Ankeny Works

*2005-2020, 2021-Present*

* Led CI Department as Representative and Trainer, facilitating process improvement frameworks
* Designed and implemented Zones Project, modernizing material flow training systems
* Led departmental CI mapping initiatives improving operational efficiency and reducing cycle times
* Managed supply chain logistics, vendor relations, and SAP-integrated inventory systems

### EDUCATION

#### **MS, Data Science & Analytics** | Western Governors University | August 2025

Healthcare AI Capstone (Production)

#### **BS, Data Analytics** | Western Governors University | March 2023 - September 2024

NFL Prediction Capstone

#### **AS, IT Programming** | Clinton Community College | 2022

### CERTIFICATIONS

* CompTIA Data+ (2024-2027)
* AWS Cloud Practitioner (2024-2027)
* Advanced Computer Vision & Deep Learning
* ML DevOps & Model Deployment
* Transformer Models & BERT

### KEY ACCOMPLISHMENTS

* Deployed live AI healthcare system serving global users with 93.8% accuracy
* Built and deployed 5+ production systems across healthcare, business analytics, and research
* Reduced ML model overfitting by 97.8% through advanced feature optimization techniques
* Published 15+ open-source projects on GitHub with comprehensive documentation
* Successfully handled extreme class imbalance (29.7:1) in medical imaging classification

### HONORS

* National Society of Leadership and Success
* Phi Theta Kappa Honor Society
* Eagle Scout