

# GLENN DALBEY

*Data Science & Analytics Professional*

319-233-4445 | dalbeyglenn@gmail.com

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## TECHNICAL SKILLS

### Programming

Python (Expert), R, SQL,  
TypeScript, JavaScript, C++, C#,  
Java, HTML/CSS

### ML & AI

PyTorch, TensorFlow/Keras,  
scikit-learn, XGBoost, Hugging  
Face, DistilBERT, OpenAI API

### Data Science

Pandas, NumPy, Tableau,  
Statistical Analysis, Data  
Mining, Predictive Modeling,  
Big Data

### Cloud & Database

AWS (Certified), PostgreSQL,  
MongoDB, S3, Weights &  
Biases

### Web & Deployment

Flask, FastAPI, Streamlit, React,  
Next.js, Docker, CI/CD, GitHub  
Actions

### Specializations

Computer Vision, NLP, Multi-  
modal AI, Healthcare AI, Deep  
Learning, LLM Orchestration

## 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, computer vision, NLP, and MLOps. Combines 15+ years of operational excellence and continuous improvement leadership at John Deere with cutting-edge technical expertise in Python, deep learning, and cloud technologies.

## FEATURED DATA SCIENCE PROJECTS

### Apollo Healthcare Connect

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

[apollohealthcareconnect.com](https://apollohealthcareconnect.com)

- Deployed live healthcare AI system serving global users with sub-second response times
- Achieved 93.8% combined multi-modal accuracy and 98.0% burn classification accuracy
- Implemented 5-model ensemble architecture combining DistilBERT (NLP) and CNNs (Computer Vision)
- Successfully handled extreme class imbalance (29.7:1 ratio) with advanced loss functions

## EDUCATION

### MS, Data Science & Analytics

Western Governors

University

Graduated August 2025

- Healthcare AI Capstone (Production)
- NSLS & Student Council Member

### BS, Data Analytics

Western Governors

University

Mar 2023 - Sep 2024

- NFL Prediction Capstone
- NSLS Member

### AS, IT Programming

Clinton Community College

Jan 2022 - Dec 2022

- Data Analytics Certificate
- Phi Theta Kappa

## CERTIFICATIONS

### Industry

- CompTIA Data+ (2024-2027)
- AWS Cloud Practitioner (2024-2027)
- CompTIA A+ (2023-2026)

### Specialized Training

- Advanced Computer Vision & Deep Learning
- ML DevOps & Model Deployment
- Transformer Models & BERT
- GANs & CNN Architecture

## HONORS

- National Society of Leadership and Success
- Phi Theta Kappa Honor Society

Glenn Dalbey - Data Science Professional

- Built production pipeline with Flask API, AWS S3 integration, and comprehensive safety protocols

### TandemAI - LLM Ensemble Orchestration Platform

Local-First AI Model Collaboration System

[github.com/XxRemstelexX/TandemAI](https://github.com/XxRemstelexX/TandemAI)

- Built innovative platform enabling multiple LLMs to collaborate through 4 orchestration modes
- Designed universal provider support for 10+ platforms (Ollama, OpenAI, Anthropic, Groq, LM Studio)
- Implemented real-time streaming, conversation history, and privacy-first local architecture
- Created cross-platform deployment with Tauri and Electron for desktop applications

### NFL Rookie Wide Receiver Performance Prediction

Advanced ML Analysis with Feature Optimization | BS Capstone

[github.com/XxRemstelexX/NFL\\_Rookie\\_WR\\_1K\\_Analysis](https://github.com/XxRemstelexX/NFL_Rookie_WR_1K_Analysis)

- Developed predictive model achieving 90.9% ROC AUC on future data validation for 1000+ yard seasons
- Reduced overfitting gap from 18.5% to 0.4% through sophisticated feature optimization (46 → 20 features)
- Implemented temporal validation strategy ensuring model generalization to future NFL seasons
- Created production-ready ensemble model for NFL draft analysis with comprehensive data pipeline

### Business Analytics AI Platform

AI-Powered Excel Analytics for Enterprise

[business-analytics-ai-platform-production.up.railway.app](https://business-analytics-ai-platform-production.up.railway.app)

- Built professional business intelligence platform with enterprise branding
- Implemented natural language querying enabling non-technical users to analyze Excel data
- Developed automated chart generation and executive-ready visualizations
- Integrated AI-powered analytics for instant business intelligence from uploaded data

## PROFESSIONAL EXPERIENCE

### Freelance Data Science Consultant

Thompson Parking & Mobility Consultants

Current

- Provide data science and analytics consulting services for business intelligence initiatives

- Eagle Scout (1995)

#### Glenn Dalbey - Data Science Professional

- Develop AI-powered Excel analytics platform enabling natural language data queries
- Design custom analytical solutions and machine learning models for client-specific 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 Wage CI Trainer, facilitating process improvement frameworks
- Developed comprehensive training curriculum for warehouse personnel, improving onboarding efficiency
- Designed and implemented the Zones Project, modernizing material flow training systems
- Led departmental CI mapping initiatives to improve operational efficiency and reduce cycle times
- Optimized material replenishment processes using bin methodology, reducing operational inefficiencies
- Managed supply chain logistics, vendor relations, and SAP-integrated inventory management
- Supported engineering teams in workflow re-splits and cycle time analysis for production optimization

## KEY ACCOMPLISHMENTS

---

- Deployed live AI healthcare system serving global users with 93.8% accuracy and sub-second response
- Achieved 90.9% ROC AUC on temporal validation for sports analytics with production deployment
- Built and deployed 5+ live production systems across healthcare, business analytics, and research
- Successfully handled extreme class imbalance (29.7:1 ratio) in medical imaging classification
- Reduced ML model overfitting by 97.8% (18.5% to 0.4% gap) through feature optimization
- Published 15+ open-source projects on GitHub with comprehensive documentation
- Developed scalable ML pipelines and REST APIs for real-world applications with safety protocols