

# Thomas Kinstle

## Data Scientist & Analytics Professional

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### SUMMARY

Mission-driven data scientist with 8+ years of experience using analytics to improve outcomes in defense, logistics, and healthcare. Proven ability to translate messy operational data into clear insights that drive action—whether it's optimizing readiness for combat vehicles, improving CMS safety scores, or forecasting transportation demand. Skilled in Python, SQL, Snowflake, and ML tools with hands-on experience in predictive modeling, KPI systems, and retrieval-augmented generation (RAG) systems. Passionate about applying data science to solve complete problems.

### SKILLS

#### Data Science & ML:

Predictive Modeling, Regression & Classification, Time Series Forecasting, SARIMA, Scikit-learn, TensorFlow, PyTorch, RAG Systems

#### Data Engineering & Analysis:

ETL Pipelines, PySpark, AWS, Snowflake, Data Wrangling, Feature Engineering, Statistical Testing, Big Data Analytics

#### Visualization & Communication:

Seaborn, Matplotlib, Plotly, Dashboard Design, KPI Frameworks, Business Communication

#### Systems & Operations:

SAP (ERP/CRM), CMMS, Preventive Maintenance, Root Cause Analysis, Logistics Systems (LIW, GCSS-J), Lean Six Sigma

### PROFESSIONAL EXPERIENCE

#### Data Science Intern | Retrieval-Augmented Generation (RAG) Platform Independent Project

Jul 2025 - Aug 2025

- **Platform Development & Deployment:** Designed and deployed a document search platform using vector embeddings and RAG to answer client-specific questions from uploaded PDFs
- **End-to-End System Architecture:** Built and tested a complete retrieval system by combining OpenAI-generated ground truth with embedded client PDFs to form a unique vector knowledge base, enabling secure, contextual Q&A
- **User Interface & Accessibility:** Developed a streamlined user interface with Streamlit to make insights easily accessible to non-technical users through an intuitive web interface

#### Maintenance Supervisor Miller's Health Systems, Plymouth, IN

Mar 2021 - Present

- **Continuous Improvement & Operational Excellence:** Led facility improvement projects contributing to Miller's recognition as 5-star CMS facility, top Indiana facility by U.S. News, and recipient of the AHCA/NCAL National Quality Award Bronze
- **Safety Program Management:** Managed comprehensive safety program ensuring compliance with healthcare regulations and maintaining high safety standards
- **KPI Management & Analytics:** Proactively monitored facility and safety KPIs, identifying performance trends and conducting root cause analysis
- **Cost Reduction & Efficiency:** Implemented preventative maintenance programs reducing emergency repair costs by 20% through data-driven strategies

**Management and Program Analyst**  
**Defense Logistics Agency, Battle Creek, MI**

*Jun 2009 - Jun 2013*

- **ERP System Integration:** Managed data processing across numerous systems including LIW, GCSS-J, Integrated Logistics System, WebFLIS, DLA and TACOM's Enterprise Business Systems (SAP)
- **Data Systems & Supply Chain:** Collaborated with cross-functional teams maintaining 95%+ operational readiness for MRAP vehicles
- **Process Improvement & Analytics:** Led Voice of Customer initiatives and Lean Six Sigma projects, managing execution and presenting actionable insights

**Aerospace Propulsion Specialist**  
**110th Fighter Wing, Battle Creek, MI**

*Apr 2003 - Apr 2010*

- **Root Cause Analysis & System Optimization:** Diagnosed and resolved propulsion system issues on A-10 aircraft, applying root cause analysis to optimize preventative maintenance
- **Leadership Development & Team Management:** Promoted to Staff Sergeant, completed advanced leadership training while supervising junior airmen on mission-critical systems and standardized procedures
- **Mission-Critical Operations & Reliability:** Maintained 90%+ mission readiness rates using CAMS CMMS systems to track preventative maintenance across multiple combat deployments

**DATA SCIENCE PROJECTS**

**Car Sales and Marketing**

Comprehensive analysis of automotive sales data to identify market trends, customer preferences, and optimization opportunities for marketing strategies.

**Global Gaming Marketing Strategy**

*Jul 2024*

Utilized Python to analyze video game sales data, performed hypothesis testing, and created visualizations to identify sales predictors across platforms and genres.

**Lyft Taxi Chicago**

*Nov 2024*

Developed SARIMA model to forecast monthly ride volume, performed seasonal decomposition, and delivered insights for urban mobility planning.

**EDUCATION**

**TripleTen**

*Jul 2024 - Feb 2025*

Computer Science, Data Science  
Machine Learning, AI, TensorFlow, PyTorch, Scikit-learn, Regression, Classification, Deep Learning, Generative AI

**Defense Acquisition University**

*2009 - 2011*

Program Management  
Information Technology, Life Cycle Logistics, Enterprise Systems Architecture

**Western Michigan University**

*Aug 2002 - Dec 2005*

Bachelor of Science, Psychology  
Behavioral Statistics, Biopsychology, Research Methods, Calculus, Statistical Analysis

**AWARDS & RECOGNITION**

**Superior Civilian Service Award, Department of Defense**

Sep 2010 | Warfighter Support Representative (WSR) MRAP Surge Team Afghanistan - Operation Enduring Freedom

**Distinguished Graduate, USAF Technical School**

Aerospace Propulsion | Demonstrated technical excellence and leadership in complex operational environments