Tommie Clark

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PROFESSIONAL PROFILE

Data Science undergraduate with manufacturing operations experience and analytical project work in production systems. Experience structuring production data to evaluate schedule deviation, delay risk, and efficiency distribution. Strong interest in applying statistical modeling and process analysis to improve operational stability and decision-making.

TECHNICAL SKILLS

Programming: Python, SQL
Analytics & Modeling: Regression, Classification, Tree-Based Models, Feature Engineering
Data & Tools: pandas, NumPy, PostgreSQL, Supabase, Git/GitHub
Systems: Linux, Reproducible ETL Workflows

PROJECT EXPERIENCE

Production Schedule Risk & Efficiency Model — Independent Project   **Feb 2026**
- Analyzed 1,000 manufacturing job records to quantify delay exposure and schedule deviation volatility.
- Engineered operational KPIs including 90th/95th percentile schedule deviation to quantify tail-risk instability.
- Built classification models to identify delay drivers and efficiency distribution patterns.
- Benchmarked machine × operation variability to isolate high-variance production segments.
- Delivered structured intervention roadmap for improving schedule reliability and operational stability.

USAA Fraud Intelligence RAG System — Applied Academic Project
- Designed embedding-backed retrieval system indexing 4,337 regulatory documents.
- Built structured ingestion workflows with Supabase storage integration.
- Deployed interactive Streamlit interface for fraud research workflows.

PPE Safety Detection Platform — Independent Project
- Developed YOLOv8-based PPE detection system with structured logging and ETL outputs.
- Implemented modular inference pipeline for reproducible experimentation.

PROFESSIONAL EXPERIENCE

Process Technician — Owens Corning   *Mar 2018 – Apr 2022*
- Supported high-volume continuous manufacturing operations.
- Contributed to process improvement initiative reducing chemical waste by approximately $35,000 annually.
- Worked within TPM systems focused on process stability and operational consistency.

Maintenance Technician Trainee — Kurz Transfer Products   *Apr 2022 – Feb 2023*
- Assisted preventive maintenance and troubleshooting of manufacturing equipment.
- Coordinated vendor logistics using SAP to support operational continuity.

EDUCATION

Bachelor of Science – Data Science
University of North Carolina at Charlotte
Expected May 2026