Kelly Arseneau

**Data Scientist | Savannah, GA**

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🔗 Portfolio Website: <https://kelly12201984.github.io/>

# Professional Summary

Data scientist who builds tools that cut the noise and surface what matters. I specialize in delivering real-world impact—apps, insights, and dashboards that actually get used. With 15 years of experience translating complexity into clarity, I now do the same with data. From tank specs to F1 racing, I build smart systems that solve real problems and make work easier for actual people.

# Technical Skills

• Languages: Python, R, SQL  
• Tools: pandas, NumPy, scikit-learn, seaborn, matplotlib, Plotly, Tableau, Power BI  
• ML & Analysis: Regression, Classification, Clustering, A/B Testing, ANOVA  
• Platforms: Azure, Google Colab, SSMS, Jupyter, RStudio, Streamlit  
• Database/ETL: SQL Server, SSIS, SSRS, Star Schema  
• Bonus: PDF parsing, KPI dashboards, user-centered design

# Selected Projects

* TankSnip – App for Extracting Tank Specs from PDFs

Streamlit App | GitHub: https://github.com/kelly12201984/TankSnip-App

Built a real-world app that parses dense ASME tank spec PDFs and extracts key fields for estimators. Automates a manual process to reduce errors and speed up quoting.

* RigReady – Résumé Scoring Tool for Welder Hiring

Streamlit App | GitHub: https://github.com/kelly12201984/RigReadyApp

Developed a résumé review tool that scores welding candidates based on criteria from Savannah Tank’s hiring process. Includes Savannah ZIP filtering, keyword scoring, and resume breakdowns.

* Real Estate Price Modeling

PySpark, Seaborn | GitHub: https://github.com/kelly12201984/real-estate-prediction

Built and tuned Gradient Boosted Trees model to predict U.S. housing prices. Explained 71% of price variance; visualized undervalued homes by region.

* F1 Constructor Prediction

Python, Tableau | GitHub: https://github.com/kelly12201984/F1\_Data\_Project

Merged and modeled F1 race results (2023–2024) to predict constructor standings. Built dashboards and forecasts for fantasy players and fans.

* ETL + KPI Dashboarding

Power BI, Azure, SQL Server | GitHub: https://github.com/kelly12201984/ETL-Project

Designed end-to-end ETL pipelines, built star schema, and developed Power BI dashboards for business insights.

# Education

M.S. Applied Data Science – Syracuse University  
10/2023 – 06/2025 | GPA: 3.83  
Courses: Machine Learning, A/B Testing, Data Warehousing, Big Data Analytics

M.Ed. Evaluation, Research & Learning – Georgia Southern University  
08/2018 – 05/2021 | Summa Cum Laude  
Thesis: "Teachers’ Perspectives on Distance Learning During COVID-19" (noted as publishable)

B.S. Elementary Education – University of Central Florida  
09/2007 – 05/2010 | GPA: 3.73  
Endorsements: Reading, ESOL

# Professional Experience

**Savannah Tank — AI Estimation Advisor / Data Science Consultant**  
Savannah, GA | June 2025 – Present

* Partnered with leadership to evaluate and guide AI-powered estimation tool development (OTTO), ensuring alignment with real-world tank fabrication needs
* Identified major gaps in vendor approach, translating domain knowledge into actionable requirements and quality assurance checks
* Advised on AI prompt engineering, data extraction logic, and optimal use of structured reference tables to improve accuracy
* Represented Savannah Tank in technical discussions with external development teams, improving transparency and pushing for more rigorous standards
* Helped leadership understand AI system limitations and potential use cases, supporting informed decision-making and prioritization

**Savannah-Chatham County Public Schools — Lead Educator**  
*Savannah, GA | Jul 2015 – May 2025*

• Designed KPI dashboards to track behavior, attendance, and academics  
• Collaborated with school leadership to analyze and act on school-wide data  
• Led stakeholder communication on student progress, often translating raw data into parent-ready insights

Volusia County Schools — Teacher  
*Daytona Beach, FL | Jul 2010 – Jul 2015*

• Improved student reading fluency by 10% using data-informed interventions  
• Managed academic data for 150+ students annually  
• Trained colleagues in classroom tech integration and data tools