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 & Libraries:** pandas, NumPy, scikit-learn, seaborn, matplotlib, Plotly, Streamlit
- **Machine Learning & Analysis:** Regression, Classification, Clustering, A/B Testing, ANOVA
- **Data Visualization & BI:** Tableau, Power BI, Jupyter, RStudio
- **ETL & Databases:** SQL Server, SSIS, Azure Blob Storage, Star Schema Modeling
- **Cloud Platforms:** Azure, Google Cloud (Colab), familiar with AWS
- **Dev & Deployment:** Visual Studio Code, GitHub, GitHub Pages, Streamlit Cloud
- **GenAI & Prompting:** Prompt engineering, use-case design, AI advising *(Savannah Tank)*
- **Information Security:** FERPA/ERB compliance, data privacy, secure handling of sensitive data
- **Bonus:** PDF parsing, KPI dashboards, stakeholder-ready storytelling

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: PDF parsing, 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 & Equipment Corporation— *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