SIDNEY J REYNAUD, JR.

DATA SCIENTIST

CONTACT

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Portfolio

https://github.com/sjreynaud

EDUCATION

Master of Science, Data Analytics
Concentration in AWS
GPA 3.92
Purdue University Global

Bachelor of Science, Analytics
GPA 3.94 Summa cum laude
Purdue University Global

VISUALIZATION & STORYTELLING

- Power BI, Tableau, Python
  - Looker Studio, Excel,
    - Python

DATA ANALYSIS

- Python (Pandas, NumPy, Matplotlib, Seaborn) Adaptability SQL, Excel, Google Sheets

SUMMARY

Experienced laboratory leader transitioning to data science. Combine 10+ years of quality-driven lab operations and team leadership with a Master's in Data Analytics (AWS). Skilled at turning operational and experimental data into reproducible, stakeholder-ready insights using Python, SQL, Tableau/Power BI, SHAP/LIME, and cloud tools. Seeking clinical data science roles focused on predictive modeling, interpretability, and actionable dashboards.

PROJECTS

- **FSGS Kidney Disease** – Modeling disease progression and treatment response using clinical and genomic data.
- **Bipolar Disorder** – Analyzing mood episode patterns and classification models to support psychiatric decision-making. (Ongoing)
- **Schizophrenia** – Exploring symptom clusters and model transparency to enhance understanding of disease trajectories. (Ongoing)
- **Prostate Cancer** – Investigating survival outcomes and biomarker significance through end-to-end analytics pipelines. (Ongoing)
- **Colon Cancer** – Applying feature importance and visual storytelling to uncover key drivers of patient outcomes. (Ongoing)
- **Spectrum (Autism)** - Modeling the developmental trajectories of emotional intelligence in autistic children using multimodal behavioral and contextual data. (Ongoing)

PROFESSIONAL EXPERIENCE

Laboratory MEGA Project Supervisor | Sasol North America | 2017–2019

- Designed and implemented a data-driven shift-coverage model for a 5–4 rotating 24-hour schedule, optimizing manpower allocation and reducing technician idle time and sample turnaround by ~20%.
- Built and maintained performance dashboards tracking technician KPIs, test throughput, and quality metrics to identify bottlenecks and prioritize training.

- Analyzed inventory and purchasing patterns to forecast consumable needs, reducing stockouts and lowering supply costs through vendor consolidation and reorder-point automation.
- Authored reproducible SOPs and training curricula with version-controlled documents, improving procedural adherence and reducing test errors.
- Partnered with unit managers to translate lab analytics into product adjustments, ensuring daily quality targets and reducing rework.

Laboratory Supervisor — West Lab | Sasol North America | Jun 2017–Sep 2019

- Implemented statistical monitoring of productivity and quality metrics, enabling targeted coaching and a measurable increase in throughput and retention.
- Created standard dashboards for daily standups that visualized defect rates, turnaround time, and technician performance to drive continuous improvement.
- Led hiring and onboarding strategy informed by historical performance analytics to align skills with peak workload windows.
- Conducted root-cause analyses on recurring quality issues and implemented corrective actions tracked via change logs.

Laboratory Superintendent (Acting) | Sasol North America | Jan 2019–May 2019

- Acted as analytics liaison during West Lab commissioning, consolidating test results, timelines, and resource models to produce an actionable startup plan.
- Developed contingency and risk models (timeline, budget, prerequisites) used to minimize commissioning delays and unplanned costs.
- Coordinated cross-functional data flows between operations, maintenance, and QA to ensure traceability and reproducibility of commissioning records.

Laboratory Manager — Delegation | Sasol North America | Nov 2017–Apr 2019

- Performed structured data audits and compliance reviews to ensure regulatory alignment and data integrity across lab systems.
- Standardized reporting templates and introduced metadata capture practices to improve reproducibility and downstream analysis readiness.
- Implemented KPIs and periodic reporting cadence to leadership, improving visibility into operational and quality trends.