# 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*

# Data Analysis

* Python (Pandas, NumPy, Matplotlib, Seaborn)

Adaptability

SQL, Excel, Google Sheets

# Contact

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**Portfolio**

https://github.com/sjreynaud

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.

SIDNEY J REYNAUD, jR.

dATA SCIENTIST

**Visualization & Storytelling**

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

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.

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)
* 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.

**Data Modeling & ETL Infrastructure**

* AWS Cloud Technologies
* GitHub
* Jupyter Notebooks

**Predictive Modeling & ETL Engineering**

* Scikit-learn, XGBOOST
* SHAP & LIME
* Survival Analysis
* Privacy Safeguards

**Cloud Technologies & Infrastructure**

* Power Query (M)
* DAX
* Star Schema Design
* ETL Processes

# Data Science Projects

* Breast Cancer Survival
* FSGS Kidney Disease
* Bipolar Disorder
* Schizophrenia
* Colon Cancer
* Spectrum (Autism)