

# Sam Celarek

## DATA SCIENTIST

[scelarek@gmail.com](mailto:scelarek@gmail.com)

513-432-3310

[www.linkedin.com/in/sam-celarek](https://www.linkedin.com/in/sam-celarek)

[www.github.com/scelarek](https://www.github.com/scelarek)

## PROFILE

As a nurse with a proven track record of leading teams to improve key performance indicators within hospitals, I have developed a passion for the data science that powered our interventions. I am excited to transition into this field and leverage my skills to help organizations make data-driven decisions.

## SKILLS

SQL, Python, R, Pandas, Sklearn

### Data Analysis:

- Data Wrangling and Cleaning
- Exploratory Data Analysis (EDA)
- Hypothesis Testing, A/B Testing

### Data Visualization:

- Matplotlib, Seaborn, Plotly, Bokeh
- Tableau and Dash Dashboards

### Machine Learning:

- Classification, Regression
- Clustering, Time-Series Prediction
- Ensemble Models, NLP, Pipelines
- Neural Nets (Keras, Tensorflow)

### Cloud: AWS, Hadoop, Spark, Hive

LLM Fine-Tuning and Prompt Engineer  
Agile Methodologies

Medical Knowledge, ACLS, RN

## EXPERIENCE

### Neuro Critical Care Nurse and Scheduling Chair | PSVMC

OCT 2019 - AUG 2022, Portland, OR

- Improved scheduling efficiency and nurse satisfaction through tailored shift patterns as Scheduling Committee Chair.

### Chair of Quality Improvement and Safety Council | SSM SLUH

NOV 2014 - JUL 2019, St Louis, MO

- Improved KPIs for Handwashing, CLABSI rates, SIRS recognition, and Medical Barcode Scanning.
- Launched educational initiatives and EPIC workflow enhancements for best practice alignment.
- Led a nursing team to integrate best practices, partner with stakeholders, implement strategies, and assess outcomes with data

### Neuro Critical Care Nurse | SSM SLUH

NOV 2017 - JUL 2019, St Louis, MO

- Provided excellent and compassionate patient care, recognized with the Daisy Award twice.

### Neuro Floor Charge Nurse | SSM SLUH

JUL 2014 - OCT 2017, St Louis, MO

- Managed assignments, floor emergencies, and staffing needs, ensuring smooth operation of the neuro floor.

## EDUCATION

### BrainStation | Diploma in Data Science

MAY 2023 - AUG 2023, NEW YORK, NY

### Saint Louis University | Bachelors in Science of Nursing

AUG 2010 - 2014, SAINT LOUIS, MO

- Provost Scholarship

## PROJECTS

### [Covid-19 Prediction with ML and ODE Modeling](#) | Data Science

AUG 2023, BrainStation Capstone, Independent Project

- Predicted COVID-19 with SARIMAX, Prophet, and RNNs with features from cutting edge epidemiological models of pandemics.

### [SideBard with Google Industry Day](#) | Data Science

AUG 2023, BrainStat x Google, Multi-Disciplinary Group Project

- Created a Chatbot powered by Embedded Search in a Sidebar for Google Suite Products with UI/UX, web devs, and data scientists in Team Alnsight