Samantha Raynor

Data Analyst - Healthcare Operations

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Professional Summary

Data Analyst with 3 years in healthcare analytics, skilled in SQL, Python, and Tableau. Proven track record in developing dashboards, identifying care gaps, and supporting quality improvement initiatives for enhanced patient outcomes.

Professional Experience

Data Analyst

2023-07-04 - Present

Mercy Hospital & Medical Center • Chicago

- Enhanced healthcare data analysis using SQL and Python, resulting in a 30% increase in the identification of care gaps and operational inefficiencies.
- Developed and implemented interactive dashboards using Power BI, improving data visualization clarity and supporting a 15% increase in performance.
- Collaborated with interdisciplinary teams to interpret large datasets, facilitating advancements in patient outcomes by providing actionable insights.
- Conducted exploratory data analysis that achieved a 20% reduction in data processing time, optimizing healthcare operations and quality improvement.
- Assisted in quality improvement projects by leveraging healthcare data, leading to a 25% improvement in operational efficiency and patient care standards.

Data Intern - Clinical Quality

2023-01-19 - 2023-09-06

Cook County Health • Aurora

- Analyzed large healthcare datasets using SQL and Python to identify care gaps, enhancing patient outcomes by 15% through targeted interventions.
- Developed interactive dashboards with Power BI, improving clinical teams' performance monitoring and driving a 20% improvement in quality metrics.
- Collaborated with interdisciplinary teams to conduct exploratory data analysis, resulting in actionable insights that streamlined operational processes by.
- Assisted in quality improvement initiatives by providing data-driven recommendations, leading to a 25% reduction in operational inefficiencies.
- Interpreted healthcare data in compliance with HIPAA standards, ensuring data integrity and supporting healthcare analytics for performance improvement.

Medical Records Coordinator

2020-08-12 - 2021-08-30

Oak Street Health • Michigan

- Streamlined medical records management by implementing data organization techniques, enhancing data retrieval efficiency by 30% and ensuring compliance with.
- Collaborated with interdisciplinary teams to identify care gaps and operational inefficiencies, contributing to performance improvement initiatives in.
- Analyzed large datasets to support quality improvement initiatives, leveraging SQL and Python to deliver actionable insights that increased operational.
- Developed and maintained dashboards and visualizations using Power BI and Tableau, enabling clinical teams to monitor key performance indicators effectively.
- Ensured adherence to HIPAA and healthcare data standards by conducting regular audits, thus maintaining data integrity and confidentiality across all medical.

Education

Master of Science in Health Informatics

2021-08-11 - 2023-05-09

University of Illinois at Chicago

Bachelor of Science in Biology

2016-08-08 - 2020-09-18

Loyola University Chicago

Core Competencies

SQL, Python, Data Analysis, Healthcare Analytics, Data Visualization, Power Bi, Tableau, Exploratory Data Analysis, Quality Improvement Initiatives, Performance Improvement, R, Microsoft Excel, Sas, Healthcare Data Analytics, Statistical Analysis, Data Mining, Detail-oriented, Analytical, Collaborating, Develop Dashboards and Visualizations, Analytical Thinking, Problem-solving, Attention to Detail, Communication Skills, Team Collaboration, Time Management, Adaptability, Critical Thinking, Project Management, Stakeholder Engagement

Notable Projects

Predicting Patient Readmission Risk

2023-01-01 - 2023-03-05

samantharaynor.dev/readmission-risk

Used logistic regression to identify patients at high risk of 30-day hospital readmission.
Technologies: Python, Scikit-learn, Pandas, Jupyter

Publications

Samantha Raynor, Dr. Alan Chen, Priya Mehta. (2023-03-04). *Predictive Modeling for 30-Day Hospital Readmission in Diabetic Patients*. **Journal of Biomedical Informatics**. 10.1016/j.jbi.2023.104352

Samantha Raynor, Dr. Lisa Kim. (2022-10-20). *Evaluating NLP Techniques for Analyzing Patient Sentiment in Post-Discharge Surveys*. **JMIR Medical Informatics**. 10.2196/32789

Professional Development

Certified Health Data Analyst (CHDA)

2023-07-05

American Health Information Management Association (AHIMA)

HIPAA for Healthcare Professionals
Udemy

2023-01-30