NOELLA
OBETTO

Portfolio

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ABOUT ME

Hi I'm **Noella,** a data professional with a background in Health Records and Information Management (BSc, Kenyatta University) and extensive experience in clinical data management, data quality assurance, and research data workflows.

Over the past few years, I've worked with large datasets, developed data quality metrics frameworks, and applied analytical techniques to improve decision-making in clinical trials, health programs, and operational research.

I am currently specializing in data analysis with Python, focusing on data cleaning, transformation, visualization, and reporting for evidence-based insights. My work combines technical skills with a deep understanding of Good Clinical Practice (GCP), regulatory standards, and healthcare data systems.

KEY SKILLS

DATA CLEANING & TRANSFORMATION

SQL, Python (Pandas, NumPy), Excel

DATA VISUALIZATION

Power BI, Matplotlib, Seaborn

GEOSPATIAL ANALYSIS

QGIS

DATABASE MANAGEMENT

Health records systems, patient-level datasets

DATA QUALITY MONITORING

Developing frameworks and trackers for GCP compliance

RESEARCH & REPORTING

Generating insights from deviation logs, attrition tracking, and feasibility reviews

PROJECTS

1. DATA QUALITY METRICS

- Designed a framework to track site performance across multiple clinical research trials.

- Created KPIs such as data completeness, timeliness, and accuracy to support evidence-based site feasibility reviews.

- Output: A dashboard summarizing site performance over time, now used in review meetings with research leadership.

2. PATIENT ATTRITION

- Analyzed attrition rates to identify when patients are most likely to drop out of programs.

- Built an Excel/Python tracker showing critical time points for intervention.

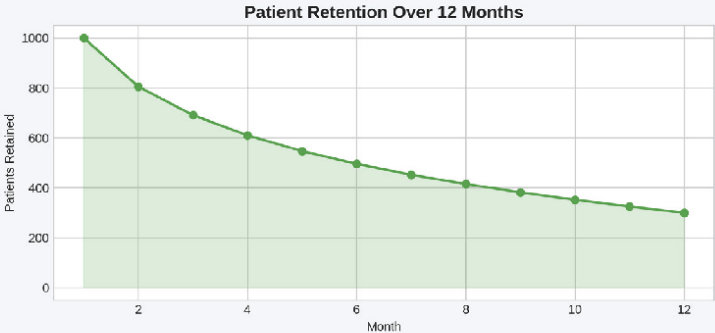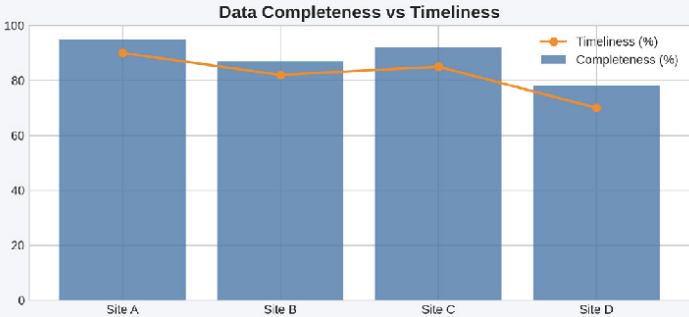- Insights were used to strengthen patient follow-up strategies.

3. CLINICAL TRIAL DEVIATION LOG ANALYSIS

- Cleaned and categorized deviation logs from Excel using Python.

- Classified deviations into major and minor, identified top causes, and presented findings.

- Delivered actionable insights to ensure compliance with ICH-GCP standards.
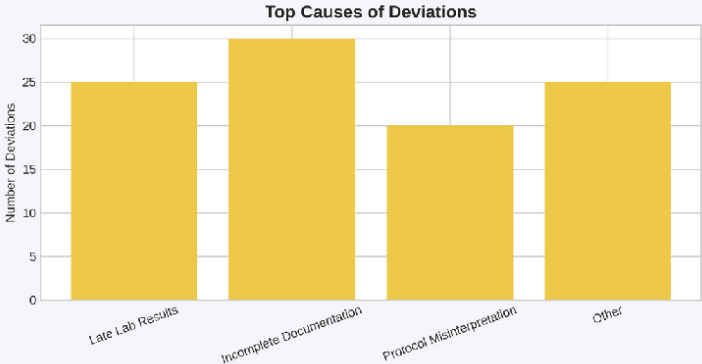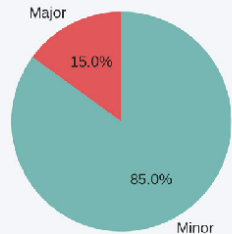
4. PARTICIPANT DOCUMENTATION REVIEW

- Developed a tracker for reviewers to identify gaps in participant binders.

- Ensured compliance with Good Documentation Practices by checking for missing source documents, incomplete records, and audit trail issues.

- Supported continuous monitoring and audit readiness.

Clinical Research Data Analytics Dashboard

Data Completeness vs Timeliness

Legend: Timeliness (%), Completeness (%)

Sites: Site A, Site B, Site C, Site D

Patient Retention Over 12 Months

Y-axis: Patients Retained, X-axis: Month

Deviation Types Distribution

Major: 15.0%, Minor: 85.0%

Top Causes of Deviations

Y-axis: Number of Deviations

Categories: Late Lab Results, Incomplete Documentation, Protocol Misinterpretation, Other

TOOLS I USE

MY NEXT STEPS

Currently, I am building my data analytics specialization in Python with structured practice in:

1. **Data Wrangling**

2. **Exploratory Data Analysis (EDA)**

3. **Dashboarding & Reporting**

4. **Statistical & Predictive Analysis**

I aim to grow into a role where I bridge data quality and analytics, delivering insights that improve clinical research,