DSHub Internship Program (Cohort C)

Week 1 Assignments
Theme: *"Digital Health Begins with Us"*
Case Partner: *Otondo Team by DSHub*
Focus SDG: *SDG 3 — Ensure healthy lives and promote well-being for all*

Assignment Duration: **Monday – Sunday (Week 1)**
Hotseat Session (Presentation): **Saturday, 4th September 2025**

Submission Deadline: Sunday, 5th September 2025

Hotseat Note:

Every track leader must present their group progress report for the week briefly (5 minutes max per track) during the Saturday Hotseat Presentation Day.

Track 3: Data Science & Analysis

Case Study: VillageMed Health Error Analytics Dashboard

The Otondo Team by DSHub has been tasked to find and collect **datasets (≥200 rows)** showing medical errors from hospitals and clinics across underserved regions. Your mission is to begin building the **data pipeline** for the **VillageMed Error Dashboard**. Your insights will power **awareness campaigns** and **design strategies**.

Learning Focus:

- Data collection, cleaning & preprocessing

- Pandas, NumPy, EDA basics

- Visualization (Matplotlib, Seaborn, Plotly)

- Data storytelling for non-technical users

- Privacy-preserving analysis

Individual Assignment (7 Deliverables):

1. **Dataset Research:** Find 3 open datasets (Nigeria/Africa health errors). Document source + size.

2. **Data Cleaning Notebook:** Handle missing data, duplicates, normalize text.

3. **Summary Stats Report:** Distribution of error types, facilities, and locations.

4. **3 Visualizations:** Bar (errors by type), Heatmap (errors by state vs error type), Pie (error proportions).

5. **Insight Memo (300 words):** Translate findings and include verifiable sources wherever there are claims.

6. **Ethical Review Note (200 words):** How to anonymize and protect sensitive patient records.

7. **Offline Field Note:** Visit a local health office/clinic → document how they track patient data (manual vs digital).

Office Hour:

Book a session with your supervisor via Calendly.

Book a session with Lawal Abdulrahman Adewale for Project Mentorship

Book a session with Aisha Tahir, Esq. for legal mentorsip

BrainTouch Quote:

"Data is not just numbers, it is people's lives counted in spreadsheets."