

TRAINING: ADVANCED DATA MANAGEMENT USING R

Trainer: Moses Mburu

Host: Narshion Ngao

When: Every Thursday 0900hrs to 1100hrs

SYLLABUS

1. INTRODUCTION

- Declarative and imperative knowledge, flow of control, algorithms, fixed program and stored program computers, termination conditions, interpretation, compilation, syntax, static semantics, semantics, and types of errors.

2. CORE ELEMENTS OF A SCRIPT

- Objects, types, operators, variables, execution, and conditional statements
- Vectorized operations and matrices

3. ITERATION

- Termination, decrementing functions, while loop, for loop.

4. FUNCTIONS, LIBRARIES & CLASS

- Module/library, function, abstraction, formal parameter, actual parameter, argument

5. DATA MANIPULATION AND PLOTTING

- Dplyr, data.table, tidyverse, ggplot2, etc, SUMMARISE, FILTERING, selecting, MELTING, PIVOT_WIDER, LONGER ETC, BARCHARTS LINEGRAPHS HISTOGRAMS ETC, ifelse etc, mutating

6. REGULAR EXPRESSIONS

- stringr, gsub, grepl grep etc

7. Data Visualization with R SHINY

- Anatomy of a R SHINY program, ui.r, server.r, global space, input elements, output elements, interactive design.

8. Capstone Project

- Data cleaning and visualization project

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