MILESTONE 8 – DFR3 – IDT8 – AI4M

MILESTONE NAME: Documentation on Impact Assessment

DELIVERABLE DESCRIPTION: This entails providing documentation on the processes that would be involved in the assessment of the impact of our AI model on malaria control and healthcare outcomes

Assessing the impact of our AI model on malaria control and healthcare outcomes is vital for understanding its effectiveness and guiding future efforts. Here's a comprehensive documentation on the processes that would be involved:

1. Definition of Evaluation Objectives:

Identification of Key Metrics: We will first determine the key metrics and indicators to assess the impact of our AI model on malaria control and healthcare outcomes. These may include malaria incidence rates, mortality rates, treatment effectiveness, and resource utilization. It may also include other key metrics that may be identified during our test/pilot implementation.

Baselines Establishments: As a follow up on the identification of our key metrics, we will also establish baseline measurements for our identified metrics to provide a reference point for comparison before the implementation of our AI model.

2. Data Collection and Analysis:

Pre-Implementation Data: Again, we are keen on gathering historical data on malaria incidence, healthcare utilization, and other relevant variables for the period preceding the implementation of our AI model.

Post-Implementation Data: We will collect data on the same metrics following the implementation of the AI model to assess changes and trends over time.

Data Analysis: We will also analyze the collected data using statistical methods and data visualization techniques to identify patterns, trends, and correlations related to malaria control and healthcare outcomes.

3. Impact Assessment:

Quantitative Analysis: we will conduct quantitative analysis to quantify the impact of our AI model on malaria control and healthcare outcomes. Compare pre- and post-implementation data to assess changes in key metrics and calculate indicators such as relative risk reduction, absolute risk reduction, and number of persons needed to treat.

Qualitative Assessment: we will supplement quantitative analysis with qualitative assessment methods such as surveys, interviews, and focus groups to gather insights from stakeholders and community members regarding the perceived impact of the AI model on malaria control and healthcare delivery.

4. Comparative Analysis:

Control Groups: We will establish control groups or comparison cohorts to assess the impact of our AI model relative to standard practices or alternative interventions. This helps isolate the effects of our AI model from other factors that may influence outcomes.

Geographical Analysis: We will compare outcomes across different geographical areas or regions to evaluate the effectiveness of the AI model in diverse settings and populations.

5. Stakeholder Engagement:

Engaging Stakeholders: We will involve stakeholders such as healthcare providers, policymakers, community leaders, and affected individuals in the assessment process. Seek their input, feedback, and perspectives on the impact of the AI model on malaria control and healthcare outcomes.

Communication: We will communicate the findings of the impact assessment to stakeholders in a clear, transparent, and accessible manner, fostering dialogue and collaboration to address any identified challenges or opportunities.

6. Continuous Monitoring and Evaluation:

Longitudinal Monitoring: We will implement mechanisms for longitudinal monitoring and evaluation to track the sustained impact of our model over time and in addition, continuously collect and analyze data to assess trends and identify areas for improvement.

Feedback Loop: We will establish a feedback loop to gather input from stakeholders and end-users regarding the ongoing performance and effectiveness of our AI model, facilitating iterative refinement and optimization.

7. Reporting and Dissemination:

Comprehensive Report: As a standard procedure, we will prepare a comprehensive report summarizing the findings of the impact assessment, including quantitative results, qualitative insights, and recommendations for future action.

Dissemination: After curating a comprehensive report, we are keen on disseminating the findings of our impact assessment through various channels such as research publications, policy briefs, presentations, and community engagement events to share knowledge and promote transparency.

By utilizing the aforementioned processes, we will effectively assess the impact of our AI model on malaria control and healthcare outcomes, providing valuable insights to inform decision-making, resource allocation, and future interventions aimed at improving public health outcomes.