1. **Provide a detailed explanation of not more than one paragraph explaining the extent to which your solution is relevant to the Theme. ( some sort of background to the AI solution that you are suggesting or describe the solution you want to introduce).**

* AI has also been sophisticated at what humans can do but more efficiently and accurate this makes AI in healthcare vast. The AI solution that we are implementing is to provide patients with medicine at pharmacy’s that will cater for the desired medicine that a patient requires in which the AI solution will prescribe the best medicine possible. This will cater for patients that are allergic or has other illnesses also provide the best medicine possible for a patient. The AI solution is relevant to the health team because it provide benefits to patient’s treatment. Providing an AI tool will benefits a patient’s treatment with minimum risk.

1. **Identify the problem that leads to your proposed solution and write it under problem definition sub-title in NO MORE than 250 words**

* The problem that lead to the proposed is that pharmacies don’t not provide patients with medicine that a patient cater for their allergic.
* Doctors don’t know prescribe patient with medicine that will best suit the patient.

1. **What exactly is the problem (190 words maximum)?**

* The problem is that patients are prescribed medicine by Doc tors and Pharmacies that is not cater for allergies and other illness that a patient has.

1. **How will solving the problem using AI benefit local municipality (in case of a community)?**

* This will benefit local municipality by developing the 4IR in to the community.
* Reduce the amount of patients in public hospitals and clinics.
* Minimize the spread of infections or diseases.
* Increase supply for other treatments.
* Reduce cost of medical bills

1. **After Identifying the problem, you must clarify the main objective of your AI Solution.**

* The main objective of the AI solution is to provide better treatment for patients, minimize the spread of infection and effected that prescribed medicine might have on other illnesses.

1. **Provide details of how you are planning to apply AI in solving the problem, use the rubric**

**Business objectives:**

* Develop a system that minimizes the risk of adverse drug reactions by automatically checking for potential allergies and illnesses with existing medications.
* By ensuring that prescriptions are safe and suitable, the system will encourage patients to follow their prescribed medication, thereby improving health outcomes.

**Business success criteria:**

* By compliance with regulations to ensure that the system complies with healthcare regulations, such as HIPAA.
* By healthcare providers using the system, indicating that it effectively supports their workflow.

**Business background:**

* The healthcare industry is in need of personalized medicine to ensure that prescribed medications do not pose risks to patients with specific allergies or illnesses. Traditional methods pose a risk to other health issues that a patient has. Therefore the aim of the proposed system is to address these challenges by providing a digital solution, this will reduce the risk of adverse drug reactions and improve overall healthcare outcomes.

**Requirements, Constraints and Risks:**

1. **Requirements:**

* The AI system must be able to process and analyze patient data in real-time to provide immediate recommendations
* The AI system should support continuous learning from new data to improve its accuracy.
* The AI system should provide clear justifications when a prescribed medication conflicts with a patient’s allergies or condition.

1. **Constraints:**

* Incomplete prescription can lead to incorrect recommendations.
* Sufficient medical data must provide to prevent any endanger a patient health.

1. **Risks:**

* The Ai might provide incorrect or unsafe recommendations due to errors in data processing
* Risk of patient data being compromised because of insufficient security measures.
* New health regulations might emerge.
* AI recommendations may not be fully transparent to health care or patients

**Tools and Techniques used to solve the problem:**