**Name: Anita Razafindrakotovao**

**Idea Proposal: Implementation of biometric voter registration in Madagascar**

**1. Project Idea:**

* The proposed project centers on implementing a biometric voter registration system in Madagascar. This initiative aims to address the challenges associated with electoral fraud, inaccuracies in voter rolls, and barriers to participation in the country's democratic process.
* The specific goal of this project is to enhance the integrity of elections in Madagascar by introducing biometric identification methods for voter registration.

**2. Relevance to Sustainable Development Goals (SDGs):**

* The project has a relationship with SDG10: Reduced Inequalities. In many countries, including Madagascar, marginalized communities often face barriers to political participation, leading to unequal representation and decision-making processes. By introducing a biometric voter registration system, this project aims to address these inequalities by ensuring that all citizens, regardless of their socio-economic status or background, have equal access to the electoral process.
* One of the key drivers of inequality in electoral systems is voter disenfranchisement resulting from fraudulent practices, such as voter impersonation or duplicate registrations.

**3. Literature Examples:**

* Marumahoko, Sylvester. 2020. Biometric Voter Registration, Zimbabwe.: The article evaluates Zimbabwe's Biometric Voters Registration (BVR) conducted from October 10, 2017, to February 8, 2018, discussing its opportunities and challenges, questioning its success in meeting objectives, and ultimately providing valuable lessons for future BVR implementations.
* A novel hybrid biometric electronic voting system: Integrating fingerprint and face recognition: This article proposed and implemented a novel hybrid design based electronic voting system which uses fingerprint and facial recognition-based methods.

**4. Describe Your Data:**

* Public datasets about facial recognition and fingerprint scanner will be chosen and preprocessed. The datasets will be of type images.

**5. Approach (Machine Learning or Deep Learning):**

* For the implementation of biometric voter registration in Madagascar, a machine learning approach is more suitable due to the structured nature of biometric data, which lends itself well to pattern recognition and classification tasks.