**Chandrasiri G. C. L – IT16071094**

**Prediction on victims count and Optimizing the dry ration**

The Main task of this module is to train the system with the effective data (past satellite images of floods, past data of victims, dry ration data etc.) and predict the results of victims count in a selected/target area. Using image processing, system will detect the affected area by flood, build a model using past data of victims count and output the results in order to optimize the dry ration that would need to be sent. This module also continuously learning and training and improving the results based on the live system and user data.

**Related Responsibilities**

1. Do a literature survey on Machine Learning, Data Science and Image Processing.
2. Gather necessary data from different data sources.
3. Data Preparation, cleaning and organizing unorganized data.
4. Prepare a machine learning model to predict victims count in a selected/target area.
5. Research on machine learning algorithms.
6. Training a model with the organized dataset.
7. Evaluating training sets and results.
8. Predict the number of victims in a selected/target area.
9. Getting prediction results to optimize the dry ration.
10. Develop related components on the client side and back end applications.
11. Apply best practices and use of current trends in software engineering.
12. Prepare software and user documents.
13. Properly test the system.
14. Deployment of the system.