**AI/Data Scientist Tasks**

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| **Name** | Ayesha Abduljalil | | |
| **Task Name** | Develop an AI Model to detect DDoS attacks | | |
| **Start Date** | 21/09/2022 | **End Date** | 6/10/2022 |
| **Working Hours** | Sunday to Thursday 7:00 AM to 2:15 PM | | |
| **Supervisor Name** | Zainab Abdulsalam  Aala Husain Mohamed  Samah Wael Fujo | | |
| **Describtion** | Distributed denial-of-service(DDoS) attacks target websites and online services. The objective of this attack is to jam the network or server with overwhelming traffic. It achieves effectiveness by utilizing multiple compromised systems as sources of attack traffic. There are different subcategories of DDoS attack based on the layer of the network connection they attempt to attack, with respect to the OSI model. | | |
| **Details of the Task** | | | |
| Using Machine Learning or Deep Learning to classify and detect DDoS attacks. The task should follow the following steps:   * Data Pre-Processing   + Distribution of Target Features   + Exploratory data analysis * Apply a suitable Unsupervised or Supervised approach for detection of threat * Evaluate the model's performance | | | |
| * A daily progress report should be submitted to your supervisor * You are required to clarify your queries/concerns about the project with your supervisor if needed. | | | |
| **Data Source** | | | |
| <https://www.kaggle.com/datasets/jacobvs/ddos-attack-network-logs>  or any other suitable source | | | |