AIML REPORT

Name: Arrick Ang
Admin No.: 1900212J
Class: PE04

In order to build a trusted Artificial Intelligence system for the company with internal governance structures and measures, I would use the Human-over-the-loop model framework. This is because most companies in this area would deal with telecommunications, payments and severity of harm can be high while the probability of harm is low or vice versa. With this framework, Artificial Intelligence would not be fully in control, and if the Artificial Intelligence model encounters any unexpected or undesirable events, a worker will be able to step in and intervene in its process. This will help to provide more robust security and clearance. I would also have clearly defined roles in the company, such as a 'Research Team' that helps to perform data analysis, research, and develop machine learning. An 'Engineering Team' helps build and develop software and cloud applications and a 'Project Manager' that oversee all of the development work throughout the teams. Other teams can be added too if they see fit.

In order to build a trusted Artificial Intelligence system for the company with the Level of human involvement in AI decision making, I would use the human-out-of-loop model framework. This is due to having a low probability of harm and low severity of harm. In this case, severe harm would mostly impact on product recommendations that do not address the user's needs. For the probability of harm, it can be adjusted depending on the efficiency and efficacy of the artificial intelligence solution. Like most online shopping such as shoppee, lazada and grab. They use this framework to help with efficiency. For example, when a user does not update that the product has been delivered for a certain amount of time, the AI would automatically assume that the product has been delivered. However, this only happens when the seller has shipped out their product and notified their respective outlet. There is also little to no harm to life during the entire process hence human-out-the-loop will fit best in this project.

References:

1) https://learn-ap-southeast-1-prod-fleet03-xythos.content.blackboardcdn.com/5dfa89a209d71/4924362?X-Blackboard-Expiration=1612764000000&X-Blackboard-Signature=l9BUntKsSnDMvcxx6ZJ6eJpq%2BhlEpGmollVyZ07fV%2B4%3D&X-Blackboard-Client-Id=100923&response-cache-control=private%2C%20max-age%3D21600&response-content-disposition=inline%3B%20filename%2A%3DUTF-8%27%27CaseStudy1%2520-%2520Internal%2520Governance.pdf&response-content-type=application%2Fpdf&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Date=20210208T000000Z&X-Amz-SignedHeaders=host&X-Amz-Expires=21600&X-Amz-Credential=AKIAZH6WM4PL66XQBNMB%2F20210208%2Fap-southeast-1%2Fs3%2Faws4_request&X-Amz-Signature=cf7739383bbb98884e4ccce06d36a7ba2c2d32dc511fa4046fe70dee91a95d58

2) https://learn-ap-southeast-1-prod-fleet03-xythos.content.blackboardcdn.com/5dfa89a209d71/4924363?X-Blackboard-Expiration=1612764000000&X-Blackboard-Signature=CUxOLBbXo4rRr8%2BJC4SZ%2BmLZAvMyk9Pr8LXVtWRan20%3D&X-Blackboard-Client-Id=100923&response-cache-control=private%2C%20max-age%3D21600&response-content-disposition=inline%3B%20filename%2A%3DUTF-8%27%27CaseStudy2%2520-%2520Human%2520Involvement.pdf&response-content-type=application%2Fpdf&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Date=20210208T000000Z&X-Amz-SignedHeaders=host&X-Amz-Expires=21600&X-Amz-Credential=AKIAZH6WM4PL66XQBNMB%2F20210208%2Fap-southeast-1%2Fs3%2Faws4_request&X-Amz-Signature=6affe5b2ca6d65f29fdd97785ac55d451324c6a2a9cc9753312f7c012eca8ee5