1. You've built a new system for making loan approval decisions. For now, its output is not used in any decision making process, and a human loan officer is solely responsible for deciding what loans to approve. But the system's output is logged for analysis. What is this type of deployment called? **1 point**

- (●) Shadow mode deployment
- ( ) Red green deployment
- ( ) Canary deployment
- ( ) Blue green deployment

2. On a new social media platform, you're rolling out a new anti-spam system to flag and hide spammy posts. Your team decides to roll out the anti-spam filter via a canary deployment, and roll it out to 1% of users initially. Which of these would you advocate? **1 point**

- ( ) After a successful canary deployment, begin to implement a shadow mode deployment.
- ( ) Monitor that 1% of users' reaction, and if it goes well, flip the switch to send all traffic (100%) to the system.
- (●) Monitor that 1% of users' reaction, and either gradually ramp up (if it's going well) or rollback (if not)
- ( ) Use a plan to ramp up to more users at a fixed rate: 1% in the first week, 2% in second week, 4% in third, and so on, so that the rollout can be well planned and managed.

3. You're building a healthcare screening system, where you input a patient's symptoms, and for the easy cases (such as an obvious case of the common cold) the system will give a recommendation directly, and for the harder cases it will pass the case on to a team of in-house doctors who will form their own diagnosis independently. What degree of automation are you implementing in this example for patient care? **1 point**

- ( ) Human only
- (●) Partial Automation
- ( ) Shadow mode
- ( ) Full Automation

4. You have built and deployed an anti-spam system that inputs an email and outputs either 0 or 1 based on whether the email is spam. Which of these will result in either concept drift or data drift? **1 point**

- (●) Spammers trying to change the wording used in emails to get around your spam filter.
- ( ) Cloud computational costs going down, resulting in a lower cost to process each email received.
- ( ) Updating a monitoring dashboard to keep track of new metrics.
- ( ) None of these will result in either concept drift or data drift.

5. Which of these statements is a more accurate description of deployment? **1 point**

- (●) It is an iterative process, where you should expect to make multiple adjustments (such as metrics monitored using dashboards or percentage of traffic served) to work towards optimizing the system.
- ( ) Because deployment is a high stakes event, it's critical to design the right system, so that immediately after launch it will immediately work reliably and scale effectively.

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