

# Deployment

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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 / 1 point

- ☐ Blue green deployment
- ☒ Shadow mode deployment
- ☐ Red green deployment
- ☐ Canary deployment

✓ **Correct**

That's right! Shadow mode is a type of deployment where the ML algorithm runs in parallel with the user but its output isn't used for any decision making.

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 / 1 point

- ☐ After a successful canary deployment, begin to implement a shadow mode deployment.
- ☒ 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.

- ☐ Monitor that 1% of users' reaction, and if it goes well, flip the switch to send all traffic (100%) to the system.

✓ **Correct**

That's right! A canary deployment allows you to monitor the performance of an algorithm on a subset of all traffic and then either ramp up to more traffic or rollback if an issue is detected.

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 / 1 point

- ☒ Partial Automation
- ☐ Full Automation
- ☐ Human only
- ☐ Shadow mode

✓ **Correct**

That's correct! This type of approach offers some automation, but still requires a human in the loop.

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 / 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.