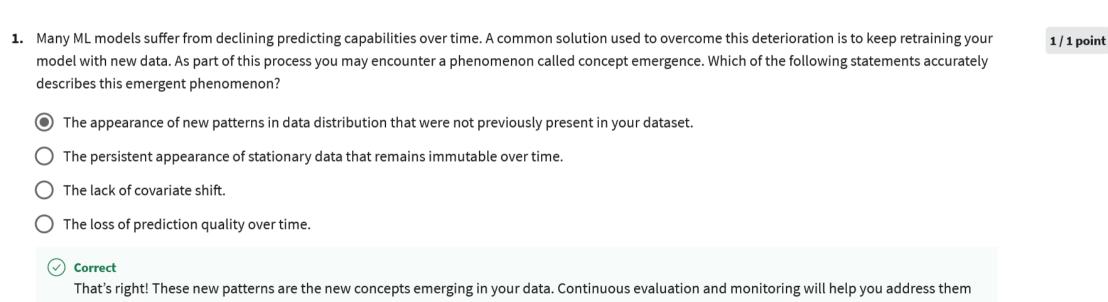
Go to next item

Congratulations! You passed!

properly.

Grade received 100% To pass 80% or higher



1/1 point

2. Statistical process control is a technique that detects concept drift assuming that the errors follow a binomial distribution. Would the system trigger an

) No

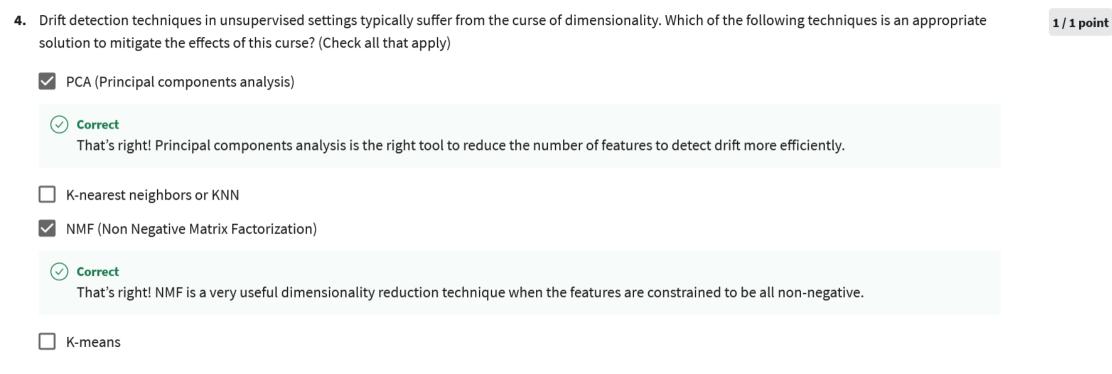
Yes

(√) Correct That's right! The values provided satisfy the alarm rule: $p_t + \sigma_t \geq p_{min} + 3\sigma_{min}$ 3. In sequential analysis you detect concept drift by calculating the negative predictive value, precision, recall, and specificity of the system based on a

- Adaptive windowing
- Recursive computation and caching
- Monte Carlo sampling
- Incremental update rule

Correct That's right! The incremental update rule is $P_*^t \leftarrow \eta_* P_*^{t-1} + (1-\eta_*) I_{u=\hat{u}_*}$

1/1 point



э.	of the known classes. If you observe that the features of the new data are lying far away from the features of known classes, you can term it as an
	emerging concept. The downside of this method is that it detects only drift and not changes.
	O cluster-based, feature
	oppulation-based, cluster-based
	of feature, cluster-based
	cluster-based, population-based.
	✓ Correct

That's right! Drift is detected only on a cluster centric view,

1/1 point

0.	slightly biased your model in favor of your limited data at training. Consequently, as time progresses, your ML model's performance will deteriorate with time. Monitoring helps prevent this performance decay in which ways? (Check all that apply)
	By performing dimensionality reduction
	✓ Reduces false alarm rates
	Correct Correct! If applied wisely, monitoring can detect data drift early on and adjust the model accordingly to adapt to these changes and hence improving model's performance.
	☐ By retraining your model constantly
	Allows you to establish ground truth labels

Allows you to identify distribution changes close to the classification boundaries

✓ Correct

Yes! Data drift can change classification boundaries quite drastically and monitoring will help you detect and mitigate this unwanted behavior.

Identify regions in latent space where the model performs poorly

Commo

Correct

That's right! Monitoring will help you identify areas in latent space where your model struggles at classification. You can further use this knowledge to refine your model.