

✔ **Congratulations! You passed!**

Grade received **100%** To pass 80% or higher

Go to next item

Hyperparameter Tuning and Neural Architecture Search

Total points 3

1. Neural Architecture Search was a promising technique that failed to surpass hand-designed architectures.

1 / 1 point

- ☐ True
- ☒ False

✔ **Correct**

Of course! In fact, NAS can design a novel network architecture that rivals the best human-invented architecture in terms of test set accuracy.

2. Which characteristics best describe hyperparameters?

1 / 1 point

- ☐ Hyperparameters are derived via training.
- ☒ Hyperparameters are not updated in each training step.

✔ **Correct**

You're right on track! Hyperparameters are not automatically optimized during the training process.

- ☒ Hyperparameters are set before launching the learning process.

✔ **Correct**

Excellent! They need to be set before model training begins.

- ☒ Hyperparameters can be quite numerous even in small models.

✔ **Correct**

Great job! Hyperparameters can be numerous, so, performing manual hyperparameter tuning can be a real brain teaser.

3. Does KerasTuner support multiple strategies?

1 / 1 point

- ☒ Yes
- ☐ No

✔ **Correct**

Exactly! KerasTuner comes with Bayesian Optimization, Hyperband, and Random Search algorithms built-in.