Name _____ Date _____

AI · How AI learns from examples

Training With Examples

Read the big idea. Then fill in the blanks.



Training

To teach AI, people show it many examples with labels: this is a cat, this is a dog. This is called training. Then the AI can guess the label for a new picture.

examples **labels** **training** **guess**

1. AI learns from many _____.
2. Each example has a name tag called a _____.
3. Teaching AI is called _____.
4. After training, AI can _____ new things.

Name _____ Date _____

AI · How AI learns from examples

Label the Examples

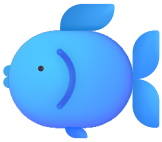
Write the label for each example.



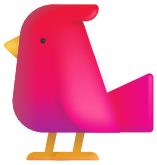
1. _____



2. _____



3. _____



4. _____

Name _____ Date _____

AI · How AI learns from examples

More Is Better

Circle which robot will learn better.

1. Robo A saw 3 pictures of dogs. Robo B saw 300 pictures of dogs.

Robo A Robo B

2. Robo A saw only white cats. Robo B saw cats of many colours.

Robo A Robo B

3. Robo A saw dogs in day and night. Robo B saw dogs only in the day.

Robo A Robo B

Name _____ Date _____

AI · How AI learns from examples

Spot the Mistake

Read what went wrong. Fill in the reason.

1. Robo only saw red apples. It said a green apple was not an _____.

2. Robo was trained with wrong labels: cats were labelled dogs. Now it calls cats _____.

3. To fix Robo, we give it _____ and better examples.

Name _____ Date _____

AI · How AI learns from examples

Be the Trainer

Choose 3 things to teach a robot. Draw two examples of each.

Thing 1: _____

Thing 2: _____

Thing 3: _____

My training examples

Name _____ Date _____

AI · How AI learns from examples

Training and Testing

Fill in the blanks.

training **testing** **new** **checks**

1. Showing AI examples is called _____.
2. Giving AI _____ examples to check is called _____.
3. Testing _____ if the AI learned well.

Name _____ Date _____

AI · How AI learns from examples

Sort the Training Cards

Write each word in the right box.

mango | bus | apple | rickshaw | banana | train

fruit	vehicle

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Name _____ Date _____

AI · How AI learns from examples

Good Labels, Bad Labels

Circle correct label or wrong label.

1. A picture of a cat labelled 'cat'

correct label

wrong label

2. A picture of a dog labelled 'cow'

correct label

wrong label

3. A picture of a bus labelled 'bus'

correct label

wrong label

4. A picture of an apple labelled 'ball'

correct label

wrong label

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Name _____ Date _____

AI · How AI learns from examples

Teach a Friend

Play the game, then answer.

Show a friend 5 drawings of 'zoggles' (things with three eyes) and 5 'not zoggles'. Then show a new drawing. Can they guess?

1. My friend learned from _____.

2. More examples made guessing _____.

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Name _____ Date _____

AI · How AI learns from examples

Think About It

Answer the questions.

1. To teach AI about mangoes, show it many _____ pictures.

2. Pictures with name tags have _____.

3. If AI makes mistakes, give it _____ examples.

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ANSWER KEY

Name _____ Date _____

AI · How AI learns from examples

Training With Examples

Read the big idea. Then fill in the blanks.



Training

To teach AI, people show it many examples with labels: this is a cat, this is a dog. This is called training. Then the AI can guess the label for a new picture.

examples **labels** **training** **guess**

1. AI learns from many **examples** .
2. Each example has a name tag called a **label** .
3. Teaching AI is called **training** .
4. After training, AI can **guess** new things.

ANSWER KEY

Name _____ Date _____

AI · How AI learns from examples

Label the Examples

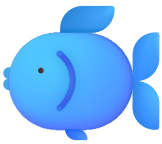
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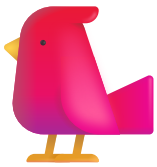
1. cat



2. dog



3. fish



4. bird

ANSWER KEY

Name _____ Date _____

AI · How AI learns from examples

More Is Better

Circle which robot will learn better.

1. Robo A saw 3 pictures of dogs. Robo B saw 300 pictures of dogs.

Robo A **Robo B**

2. Robo A saw only white cats. Robo B saw cats of many colours.

Robo A **Robo B**

3. Robo A saw dogs in day and night. Robo B saw dogs only in the day.

Robo A Robo B

ANSWER KEY

Name _____ Date _____

AI · How AI learns from examples

Spot the Mistake

Read what went wrong. Fill in the reason.

1. Robo only saw red apples. It said a green apple was not an **apple** .

2. Robo was trained with wrong labels: cats were labelled dogs. Now it calls cats **dogs** .

3. To fix Robo, we give it **more** and better examples.

ANSWER KEY

Name _____ Date _____

AI · How AI learns from examples

Be the Trainer

Choose 3 things to teach a robot. Draw two examples of each.

Thing 1: _____

Thing 2: _____

Thing 3: _____

Answers will vary.

My training examples

Drawings will vary.

ANSWER KEY

Name _____ Date _____

AI · How AI learns from examples

Training and Testing

Fill in the blanks.

training | testing | new | checks

1. Showing AI examples is called **training** .
2. Giving AI **new** examples to check is called **testing** .
3. Testing **checks** if the AI learned well.

ANSWER KEY

Name _____ Date _____

AI · How AI learns from examples

Sort the Training Cards

Write each word in the right box.

mango | bus | apple | rickshaw | banana | train

fruit	vehicle
mango	bus
apple	rickshaw
banana	train

ANSWER KEY

Name _____ Date _____

AI · How AI learns from examples

Good Labels, Bad Labels

Circle correct label or wrong label.

1. A picture of a cat labelled 'cat'

correct label wrong label

2. A picture of a dog labelled 'cow'

correct label **wrong label**

3. A picture of a bus labelled 'bus'

correct label wrong label

4. A picture of an apple labelled 'ball'

correct label **wrong label**

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ANSWER KEY

Name _____ Date _____

AI · How AI learns from examples

Teach a Friend

Play the game, then answer.

Show a friend 5 drawings of 'zoggles' (things with three eyes) and 5 'not zoggles'. Then show a new drawing. Can they guess?

1. My friend learned from **examples** .

2. More examples made guessing **easier** .

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ANSWER KEY

Name _____ Date _____

AI · How AI learns from examples

Think About It

Answer the questions.

1. To teach AI about mangoes, show it many **mango** pictures.

2. Pictures with name tags have **labels** .

3. If AI makes mistakes, give it **more** examples.