AI aids conservationists in saving red squirrels.

Description

Genysys Engine A red squirrel with its whiskers highlighted in boxes by an AI system
Genysys Engine

Whiskers help the AI identify what is - and isn't - a red squirrel

A new AI tool called Squirrel Agent can tell the difference between grey and red squirrels with 97% accuracy.

It helps with feeding and controlling populations in the UK.

The tool is being tested by wildlife charities and may be used for other species in the future.

Efforts to save red squirrels from extinction are crucial due to the threat posed by grey squirrels.

Genysys Engine A grey squirrel on a tree near a feeder
Genysys Engine

The tech is being trialled in a number of UK woodlands

AI can help identify individual squirrels by analyzing their unique whiskers, like human fingerprints.

This technology may be crucial in tracking and monitoring wildlife populations.

Other examples of AI in conservation include finding animals after bushfires and deterring pests in gardens.

Vocabulary List:

1. **Accuracy** /ˈæk.jʊ.rə.si/ (noun): The quality or state of being correct or precise.
2. **Extinction** /ɪkˈstɪŋk.ʃən/ (noun): The state or process of a species family or larger group being or becoming extinct.
3. **Identify** /aɪˈdɛntɪˌfaɪ/ (verb): To recognize or ascertain what something is.

4. **Monitor** /ˈmɒnɪtə/ (verb): To observe and check the progress or quality of something over a period of time.

5. **Threat** /θrɛt/ (noun): A person or thing likely to cause damage or danger.

6. **Crucial** /ˈkruː.ʃəl/ (adjective): Decisive or critical especially in the success or failure of something.

Comprehension Questions

Multiple Choice

1. What is the name of the new AI tool that can differentiate between grey and red squirrels?

   Option: Squirrel Identifier
   Option: Whisker Analyzer
   Option: AI Squirrel Agent
   Option: Genysys Engine

2. Whiskers in squirrels are highlighted by the AI using which system?

   Option: Fingerprint System
   Option: Facial Recognition System
   Option: Genysys Engine
   Option: Whisker Detection System

3. What accuracy percentage does the AI tool have in differentiating between grey and red squirrels?

   Option: 85%
   Option: 92%
   Option: 97%
   Option: 100%

4. Which country is currently testing the AI tool for tracking and monitoring wildlife populations?

   Option: UK
   Option: USA
   Option: Australia
   Option: Canada

5. Efforts to save red squirrels are crucial due to the threat posed by which type of squirrels?

   Option: Black Squirrels
   Option: Brown Squirrels
   Option: Grey Squirrels
   Option: White Squirrels

6. What other functions can AI serve in wildlife conservation according to the text?

   Option: Identifying tree species
   Option: Counting bird nests
   Option: Finding animals after bushfires
   Option: Monitoring ocean currents

True-False

7. The AI tool can only differentiate red squirrels from grey squirrels.

8. The AI technology is being tested in only one UK woodland.

9. AI technology in conservation is limited to deterring pests in gardens.

10. The whiskers of squirrels are unique to each individual, similar to human fingerprints.

11. The AI tool, Squirrel Agent, has a 100% accuracy rate in identifying squirrels.

12. Red squirrels are not at risk of extinction from grey squirrels.

Gap-Fill

13. The AI tool called Squirrel Agent can differentiate between grey and red squirrels with

_____ accuracy.

14. Efforts to save red squirrels from extinction are crucial due to the threat posed by

_____ squirrels.

15. AI can help identify individual squirrels by analyzing their unique _____ , like human

fingerprints.

16. The new AI tool is being trialled in a number of UK _____ .

17. This technology may be crucial in tracking and monitoring _____ populations.

18. Other examples of AI in conservation include finding animals after _____ .

Answer

Multiple Choice: 1. AI Squirrel Agent 2. Genysys Engine 3. 97% 4. UK 5. Grey Squirrels 6. Finding animals after bushfires
True-False: 7. False 8. False 9. False 10. True 11. False 12. False
Gap-Fill: 13. 97% 14. Grey 15. whiskers 16. woodlands 17. wildlife 18. bushfires

Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. What technology is commonly used to detect changes in the environment?

   Option: A. Sensors
   Option: B. Robots
   Option: C. Subscription
   Option: D. Competition

2. Who are the individuals receiving medical care or treatment?

   Option: A. Subscription
   Option: B. Patients
   Option: C. Pollution
   Option: D. Consumers

3. What is the act of allocating money or resources in the expectation of benefit in the future?

   Option: A. Investment
   Option: B. Sensors
   Option: C. Proposal
   Option: D. Treaty

4. What term refers to the quality of being coherent and intelligible?

   Option: A. Robots
   Option: B. Clarity
   Option: C. Extinction
   Option: D. Marangoni

5. Who are the people who purchase goods and services for personal use?

   Option: A. Emissions

Option: B. Investment
Option: C. Consumers
Option: D. Track

6. What refers to the introduction of harmful substances into the environment?

Option: A. Pollution
Option: B. Track
Option: C. Sensors
Option: D. Commission

7. What quality denotes the degree of conformity of a measured or calculated quantity to its actual value?

Option: A. Competition
Option: B. Harmful
Option: C. Accuracy
Option: D. Identify

8. What category do substances utilized in chemical processes belong to?

Option: A. Treaty
Option: B. Chemicals
Option: C. Sensors
Option: D. Subscription

9. What term denotes the state or process of a species family or larger group being or becoming extinct?

Option: A. Subscription
Option: B. Accuracy
Option: C. Extinction
Option: D. Sensors

10. What physical property of liquids causes them to minimize their surface area?

Option: A. Robots
Option: B. Marangoni
Option: C. Surface Tension
Option: D. Identify

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. Continuous _____ of the patient's vital signs is essential in critical care.

12. You can enjoy ad-free music by getting a premium _____ to the streaming service.

13. Before the project can begin the team needs to submit a detailed _____ for approval.

14. The success of the experiment relied on the _____ of the measurements taken.

15. Making a smart _____ in your education can lead to better career opportunities.

16. It is important to segregate waste so that materials can be _____ and reused.

17. Exposure to certain substances can have _____ effects on human health.

18. Forensic scientists use various techniques to _____ unknown substances found at

crime scenes.

19. The GPS system allows you to _____ the location of your delivery in real-time.

20. The artist received a _____ for a sculpture to be placed in the city park.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. Organizations strive to outperform rivals in a market with similar products or services.
22. Individuals or households that use goods or services generated within an economy.
23. Phenomenon where surface tension gradients drive flow between two fluid regions.
24. Automated machines designed to carry out tasks typically performed by humans.
25. Formal agreement between multiple states to regulate various aspects of their relationships.
26. Release of pollutants or gases into the atmosphere typically from vehicles or industrial processes.
27. Regular payment made to access services or content over a period of time.
28. A formal suggestion or plan submitted for consideration or discussion.
29. To establish or recognize the nature of someone or something.
30. To observe and check the progress or quality of something over a period of time.

Answer

Multiple Choice: 1. A. Sensors 2. B. Patients 3. A. Investment 4. B. Clarity 5. C. Consumers 6. A. Pollution 7. C. Accuracy

8. B. Chemicals 9. C. Extinction 10. C. Surface Tension

Gap-Fill: 11. monitoring 12. subscription 13. proposal 14. accuracy 15. investment 16. recycled 17. harmful 18. identify 19. track 20. commission

Matching sentence: 1. Competition 2. Consumers 3. Marangoni 4. Robots 5. Treaty 6. Emissions 7. Subscription 8. Proposal 9. Identify 10. Monitor

CATEGORY

1. Sci/Tech - LEVEL2

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