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# 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 distinguish between grey and red squirrels with 97% accuracy, making it a valuable tool for conservationists. It can even control access to squirrel feeders, ensuring the right squirrels get the right food. This technology, developed by Genysys Engine, is currently being tested in the UK with promising results.

Grey squirrels have caused a decline in red squirrel populations, especially in England and Wales. The tech aims to help preserve red squirrels by providing targeted support based on individual squirrel identification, focusing on unique features like whiskers.

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

The tech is being trialled in a number of UK woodlands

The AI tool's future potential lies in individual animal identification through whisker analysis. This could help track family lines and monitor populations more effectively. Other examples of AI in conservation include the World Wildlife Fund's use of AI to locate surviving animals after bushfires in Australia.

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## Vocabulary List:

1. **Distinguish** /dɪ'stɪŋ.gwɪʃ/ (verb): To recognize or ascertain what makes something different.
2. **Conservationists** /ˌkɒnsə'veɪʃənɪsts/ (noun): People who advocate for the protection of the environment and wildlife.
3. **Technology** /tek'nɒlədʒi/ (noun): The application of scientific knowledge for practical purposes.
4. **Identification** /aɪ,dentɪfɪ'keɪʃən/ (noun): The action or process of identifying someone or something.
5. **Preserve** /prɪ'zɜːrv/ (verb): To maintain something in its original state or in good condition.
6. **Whiskers** /'wɪskəz/ (noun): Long projecting hairs or bristles growing from the face of certain mammals used for tactile sensation.

## Vocabulary quizzes



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

1. Who advocates for the protection and preservation of the environment and wildlife?  
Option: Accountants  
Option: Conservationists  
Option: Politicians  
Option: Artists
2. Who studies celestial objects and phenomena?  
Option: Carpenters  
Option: Astronomers  
Option: Chefs  
Option: Athletes
3. Which term relates to the process or set of rules to be followed in calculations or other problem-solving operations?  
Option: Musical  
Option: Algorithmic  
Option: Biological  
Option: Historical
4. Which word describes something emitting or reflecting light?  
Option: Opaque  
Option: Dull  
Option: Luminous  
Option: Invisible
5. What term describes the quality of being easily seen through?  
Option: Concealment  
Option: Obscurity  
Option: Transparency  
Option: Opacity
6. What type of action is taken to correct or rectify a mistake or a problem?  
Option: Destructive  
Option: Corrective  
Option: Acceptive  
Option: Reactive
7. Which term means to increase or improve the quality value or extent of something?  
Option: Diminish  
Option: Reduce



Option: Enhance

Option: Deplete

8. Who or what controls or maintains parameters in a particular system or process?

Option: Disrupter

Option: Observer

Option: Regulator

Option: Assistant

9. What describes the state or quality of requiring immediate action or attention?

Option: Leisure

Option: Calmness

Option: Urgency

Option: Delay

10. Which term means important in effect or meaning?

Option: Insignificant

Option: Minor

Option: Negligible

Option: Significant

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

11. Cats use their \_\_\_\_\_ for sensing their environment.

12. The factory was fined for its excessive \_\_\_\_\_ of pollutants.

13. The company launched several new \_\_\_\_\_ to promote employee well-being.

14. All \_\_\_\_\_ from the charity event will go toward funding medical research.

15. The criminal was \_\_\_\_\_ to ten years in prison for his role in the robbery.

16. The investigators uncovered a complex \_\_\_\_\_ to defraud the government.

17. The police made a \_\_\_\_\_ of illegal drugs during the raid.

18. Money \_\_\_\_\_ is a serious financial crime that involves illegal proceeds.

19. The photographer managed to \_\_\_\_\_ the beauty of the landscape in a stunning



image.

20. The rapid advancement of \_\_\_\_\_ has transformed how we live and work.

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

21. Conservationists work to protect and natural habitats for future generations.
22. Astronomers study massive stars known as that exhibit extreme characteristics.
23. The of a butterfly involves stages from egg to caterpillar to butterfly.
24. The stunning photograph the essence of the city at night.
25. Leaders should be for their decisions and actions.
26. Experts provided valuable for improving the company's financial performance.
27. The discovery of a new species in the forest was a achievement for the research team.
28. Governments should prioritize in their decision-making processes.
29. The board of directors emphasized the of addressing the company's financial challenges.
30. The company implemented actions to address the product quality issues.

**Answer**

**Multiple Choice:** 1. Conservationists 2. Astronomers 3. Algorithmic 4. Luminous 5. Transparency 6. Corrective 7. Enhance 8. Regulator 9. Urgency 10. Significant

**Gap-Fill:** 11. Whiskers 12. Emissions 13. Initiatives 14. Proceeds 15. Sentenced 16. Conspiracy 17. Seizure 18. Laundering 19. Capture 20. Technology

**Matching sentence:** 1. Preserve 2. Supergiants 3. Lifecycle 4. Captured 5. Accountable 6. Recommendations 7. Significant 8. Transparency 9. Urgency 10. Corrective

**CATEGORY**

- 1. Sci/Tech - LEVEL3

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