



AI Tracks Penguins in Antarctica Using Tourist Photos

Description

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Artificial intelligence can help find and follow penguin groups in Antarctica by studying tourist photos. Heather Lynch from Stony Brook University explains that everyone now has a camera, creating a lot of data worldwide.

Researchers like Haoyu Wu used an AI tool to locate Adélie penguins in tourist snapshots. This tool can quickly identify penguins in photos, making the process much faster than manual work. The team also built a 3D model of the Antarctic terrain using satellite images.

This new way of viewing photos helps track changes in penguin colonies over time due to climate change. Scientists like Annie Schmidt from Point Blue Conservation Science find this method useful for studying population shifts in penguins.

While some worry about the impact of tourism on penguin colonies, others believe it is regulated. The use of AI in tracking penguins can aid in understanding environmental changes in remote areas like Antarctica.

Topics:

- artificial intelligence
- Antarctica

Vocabulary List:

1. **artificial** /,ɑ:r.tɪ'fɪʃ.əl/ (adjective): Made or produced by human beings rather than occurring naturally.
2. **identify** /aɪ'deɪn.tɪ.fai/ (verb): To recognize or establish as being a particular person or thing.
3. **track** /træk/ (verb): To follow the course or development of something.
4. **population** /,pɒp.jʊ'leɪ.ʃən/ (noun): All the inhabitants of a particular place.
5. **changes** /'tʃeɪn.dʒɪz/ (noun): The act or instance of making or becoming different.
6. **regulate** /'reg.jュ.leɪt/ (verb): To control or supervise by means of rules and regulations.

Comprehension Questions

Multiple Choice

1. Who explained how artificial intelligence can help find and follow penguin groups in Antarctica?

Option: Heather Lynch
Option: Haoyu Wu
Option: Annie Schmidt

Option: Ratan Naval Tata

2. Which university is Heather Lynch from?

Option: Stony Brook University

Option: Harvard University

Option: Oxford University

Option: Yale University

3. Who used an AI tool to locate Adélie penguins in tourist snapshots?

Option: Haoyu Wu

Option: Heather Lynch

Option: Annie Schmidt

Option: Ratan Naval Tata

4. What did researchers like Haoyu Wu build using satellite images?

Option: 3D model of the Antarctic terrain

Option: Tourist photos

Option: A tracking device for penguins

Option: A map of penguin colonies

5. Who finds the new method of tracking penguin colonies useful for studying population shifts in penguins?

Option: Annie Schmidt

Option: Heather Lynch

Option: Haoyu Wu

Option: Ratan Naval Tata

6. What can the use of AI in tracking penguins aid in understanding?

Option: Environmental changes in remote areas like Antarctica

Option: Tourist behavior

Option: Population of seals in Antarctica

Option: Health of polar bears

True-False

7. Artificial intelligence can help locate penguin groups in Antarctica by studying tourist photos.

8. Tourism in Antarctica is unregulated.

9. The AI tool developed by Haoyu Wu identifies penguins in photos at a slower pace than manual work.

10. Heather Lynch is a researcher from Yale University.

11. The team did not build a 3D model of the Antarctic terrain using satellite images.

12. Annie Schmidt is concerned about the negative impact of tourism on penguin colonies.

Gap-Fill

13. Artificial intelligence can help find and follow penguin groups in Antarctica by studying _____ photos.

14. Haoyu Wu used an AI tool to locate Adélie penguins in _____ snapshots.

15. The use of AI in tracking penguins can aid in understanding environmental changes in remote areas like _____.

16. Everyone having a camera creates a lot of _____ worldwide.

17. Some worry about the impact of _____ on penguin colonies.

18. Annie Schmidt finds the method useful for studying population shifts in _____.

Answer

Multiple Choice: 1. Heather Lynch 2. Stony Brook University 3. Haoyu Wu 4. 3D model of the Antarctic terrain 5. Annie Schmidt 6. Environmental changes in remote areas like Antarctica

True-False: 7. True 8. False 9. False 10. False 11. False 12. False

Gap-Fill: 13. tourist 15. Antarctica 16. data 17. tourism 18. penguins

Vocabulary quizzes

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

1. Which process involves the transfer of signals from one point to another?

- Option: Harvesting
- Option: Transmission
- Option: Grooming
- Option: Emissions

2. Which term refers to something made by humans and not occurring naturally?

- Option: Conversion
- Option: Efficient
- Option: Scattered
- Option: Artificial

3. What does the term "demographics" refer to in a specific area or among a group of people?

- Option: Changes
- Option: Era
- Option: Population
- Option: Equivalence

4. What is the action of informing someone about something officially?

- Option: Limit
- Option: Regulate
- Option: Notification
- Option: Assistance

5. Which term is related to the process of preparing someone or something for a particular purpose or function?

- Option: Directed
- Option: Inappropriately
- Option: Targeted
- Option: Grooming

6. What constitutes the long-term pattern of temperature humidity and precipitation in an area?

- Option: Challenge
- Option: Climate
- Option: Harmful
- Option: Platforms

7. What are physical substances used to make things like wood metal or fabric called?

- Option: Incidents
- Option: Materials
- Option: Applications
- Option: Transmission

8. Which term describes the ability to accomplish a task with minimal waste or effort?

- Option: Emissions
- Option: Sustainable
- Option: Generation
- Option: Efficient

9. What are specific occurrences or events especially suspected or undesirable ones called?

- Option: Incidents
- Option: Transmission
- Option: Era
- Option: Changes

10. Which term refers to the different systems or technologies that support a particular application?

- Option: Equivalence
- Option: Notification
- Option: Generation
- Option: Platforms

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

11. The Industrial Revolution was a period of significant change in the _____.

12. The primary purpose of a passport is to _____ a person.

13. GPS technology allows us to _____ the location of vehicles in real-time.

14. Laws and regulations are put in place to _____ certain industries.

15. The _____ of electricity from renewable sources is crucial for a sustainable future.

16. Language barriers can be overcome with the help of professional _____ services.

17. Proper _____ of resources is essential for a project to succeed.

18. Speed limits are implemented to ensure road safety and _____ accidents.

19. During emergencies people often require immediate medical _____.

20. Exposure to certain chemicals can have _____ effects on human health.

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

21. The leaves were all over the yard after the windstorm.
22. The coach the team to focus on defense during the final minutes of the game.
23. The marketing campaign was specifically at young adults interested in fitness.
24. Using renewable energy sources is crucial for a future.
25. In mathematics the principle of states that two things are equal in value.
26. Overcoming obstacles and difficulties is a common in life.
27. An official was sent to all employees regarding the upcoming company meeting.
28. The software has various practical for both personal and business use.
29. The constant evolution of technology brings about significant in our daily lives.
30. A was issued to residents warning them of the approaching hurricane.

Answer

Multiple Choice: 1. Transmission 2. Artificial 3. Population 4. Notification 5. Grooming 6. Climate 7. Materials 8. Efficient 9. Incidents 10. Platforms

Gap-Fill: 11. Era 12. Identify 13. Track 14. Regulate 15. Generation 16. Translation 17. Organization 18. Limit 19. Assistance 20. Harmful

Matching sentence: 1. Scattered 2. Directed 3. Targeted 4. Sustainable 5. Equivalence 6. Challenge 7. Notification 8. Applications 9. Changes 10. Notification

CATEGORY

1. Sci/Tech - LEVEL2

Date Created

2024/10/31

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