



## 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** /ˌɑːr.tɪˈfɪʃ.əl/ (adjective): Made or produced by human beings rather than occurring naturally.
2. **identify** /aɪˈdɛn.tɪ.faɪ/ (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** /ˌpɒp.jəˈleɪ.ʃən/ (noun): All the inhabitants of a particular place.
5. **changes** /ˈtʃeɪn.dʒɪz/ (noun): The act or instance of making or becoming different.
6. **regulate** /ˈrɛg.jʊ.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



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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. )**



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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



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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

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