Eliminating Plastic Waste Using Artificial Intelligence (AI)

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Plastic Waste is out of Control!

- Plastics are non-biodegradable polymers
- Plastics are ruining our environment
- Artificial Intelligence can help solve this issue using simulation of human intelligence in a machine.

Findings

- 150 million tons in the ocean
- Increasing by 8 million tons annually
- Plastic waste as threat to marine life

The Issue

- What’s the big idea?
  - Plastic takes about 400 years to decompose
  - Also forms microplastics
  - Serious threat to ocean
- How can AI help?
  - Machine learning to detect plastic
  - Using optical satellite to detect plastics

Current Progress

- Refractive Index of plastic helped AI detect it.
- Image processing of polluted rivers.
- Tactile Feedback on drones
  - Implementation through sensor in arm of drone
- Metal detectors on drones
  - Implementation in arm of drone

What’s Next?

References


Acknowledgements

AvenueE, Estelle Gonzalez