BEACH WATER QUALITY

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Hi!, I am ‘Timi Adejumo

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AGENDA

- BUSINESS PROBLEM
- DATA UNDERSTANDING
- METHODS
- FINDINGS
- CONCLUSIONS
- FUTURE RESEARCH

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STAKEHOLDERS: SURF CLUB

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BUSINESS PROBLEM

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IS IT SAFE TO SWIM TODAY?

OR

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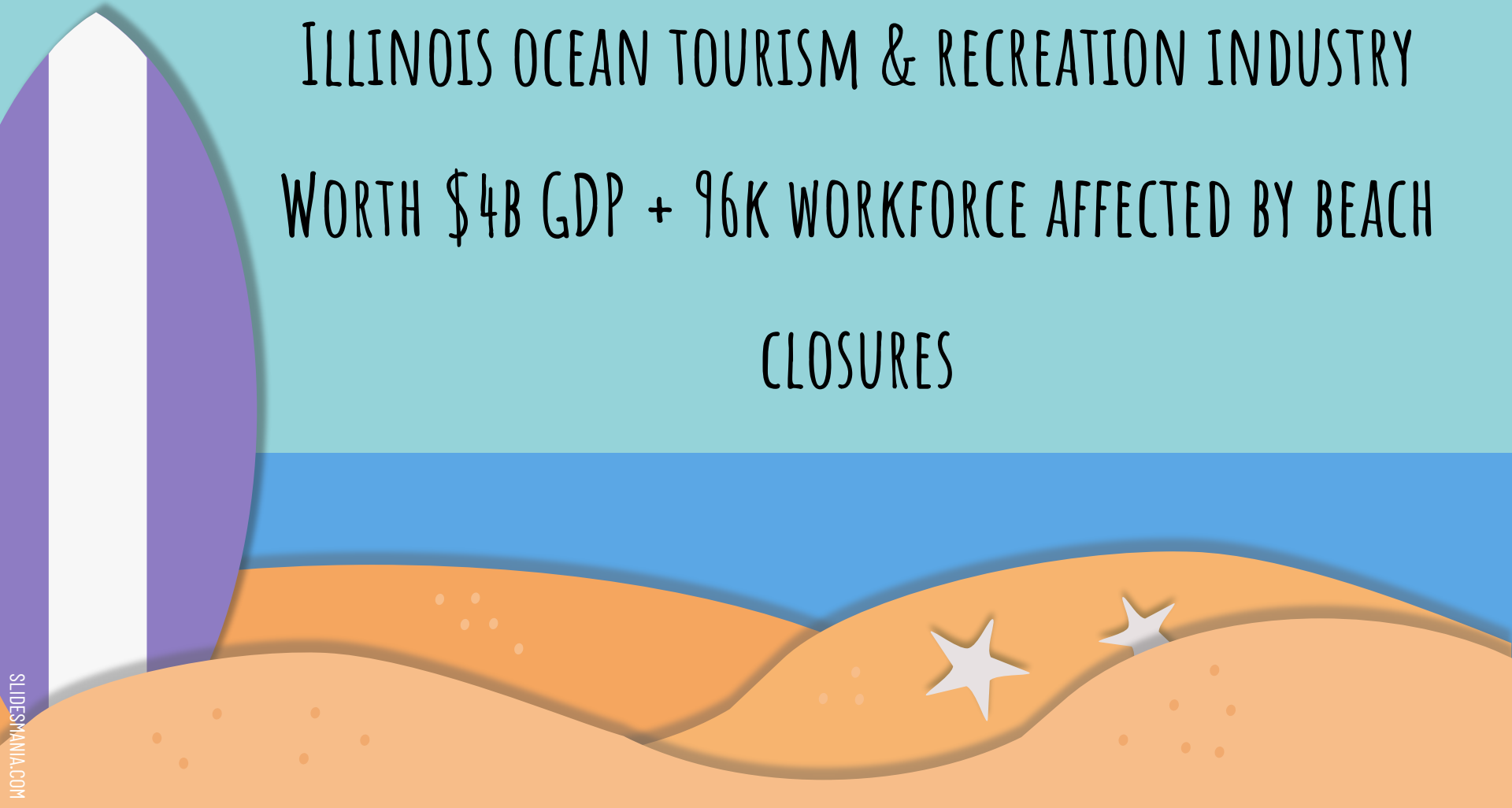
Illinois ocean tourism & recreation industry

Worth $4b GDP + 96k workforce affected by beach

closures



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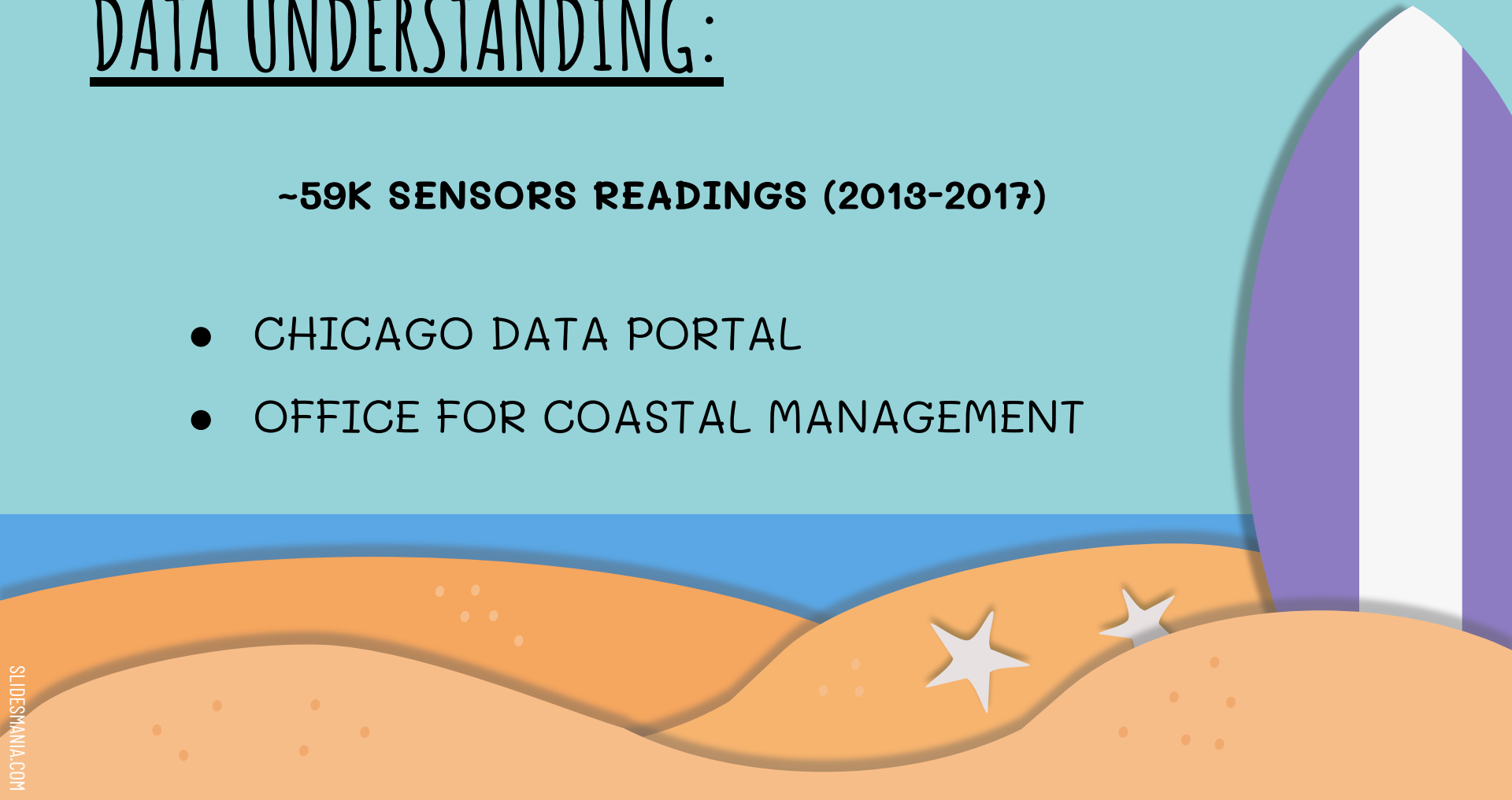
DATA UNDERSTANDING:

~59K SENSORS READINGS (2013-2017)

- CHICAGO DATA PORTAL
- OFFICE FOR COASTAL MANAGEMENT



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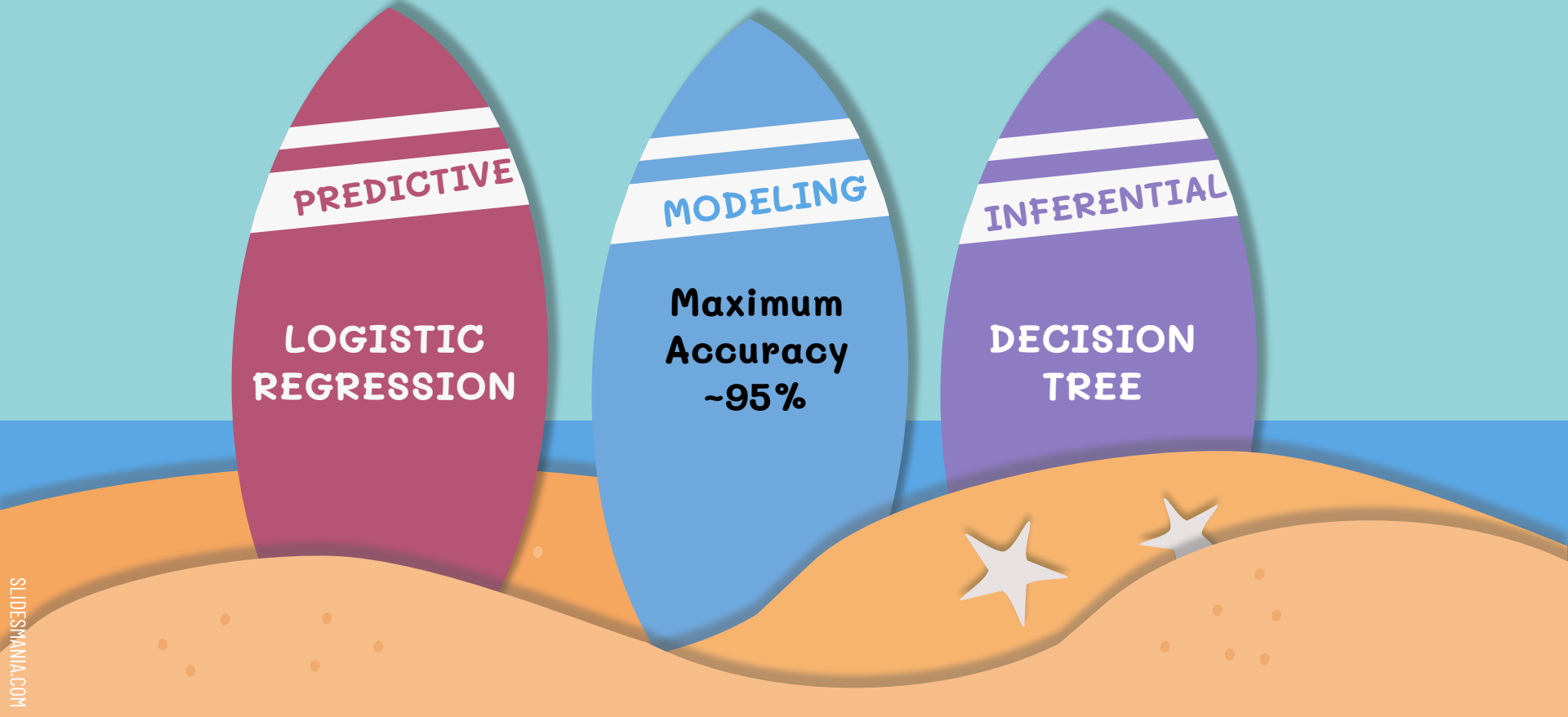
MACHINE LEARNING MODELS



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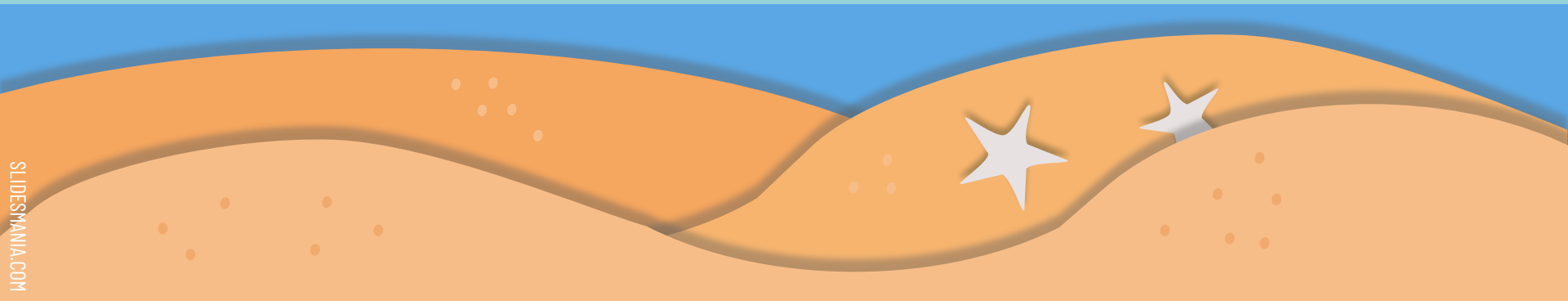
MACHINE LEARNING MODELS:

MAXIMUM ACCURACY

~ 95%



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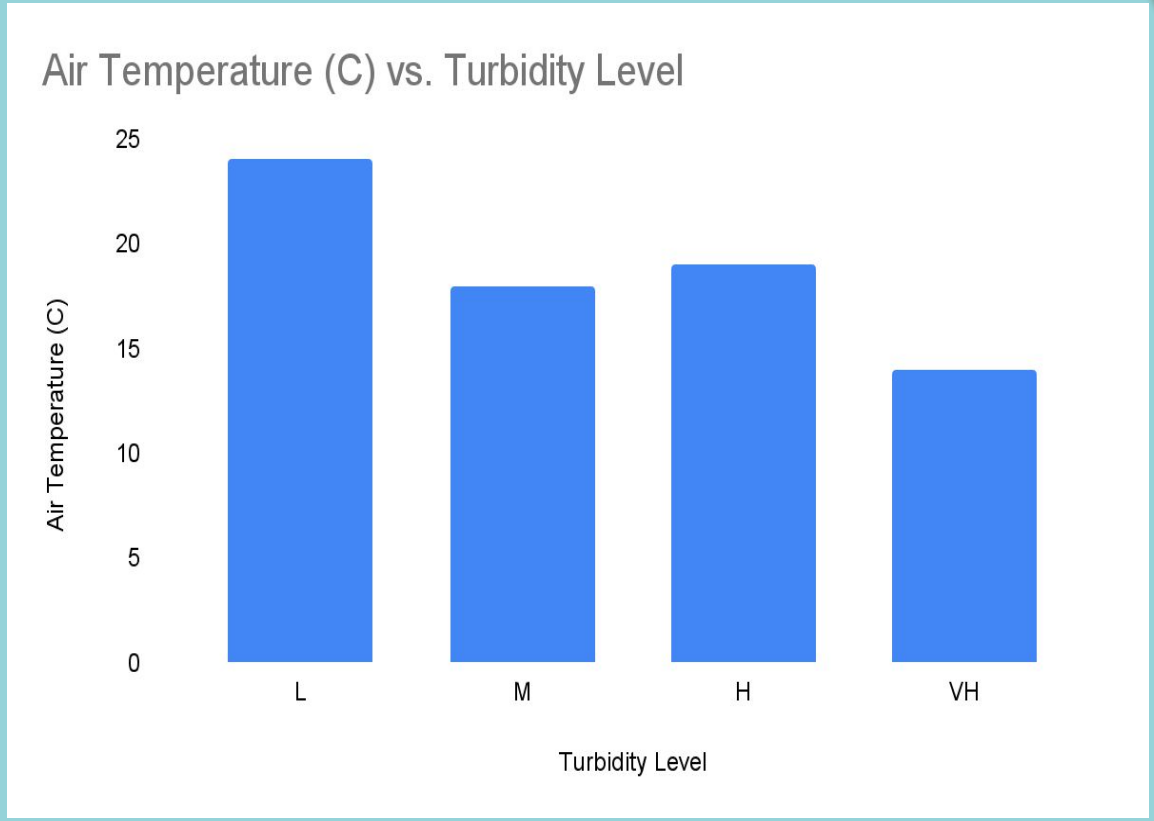

Air temperature Vs. Turbidity level

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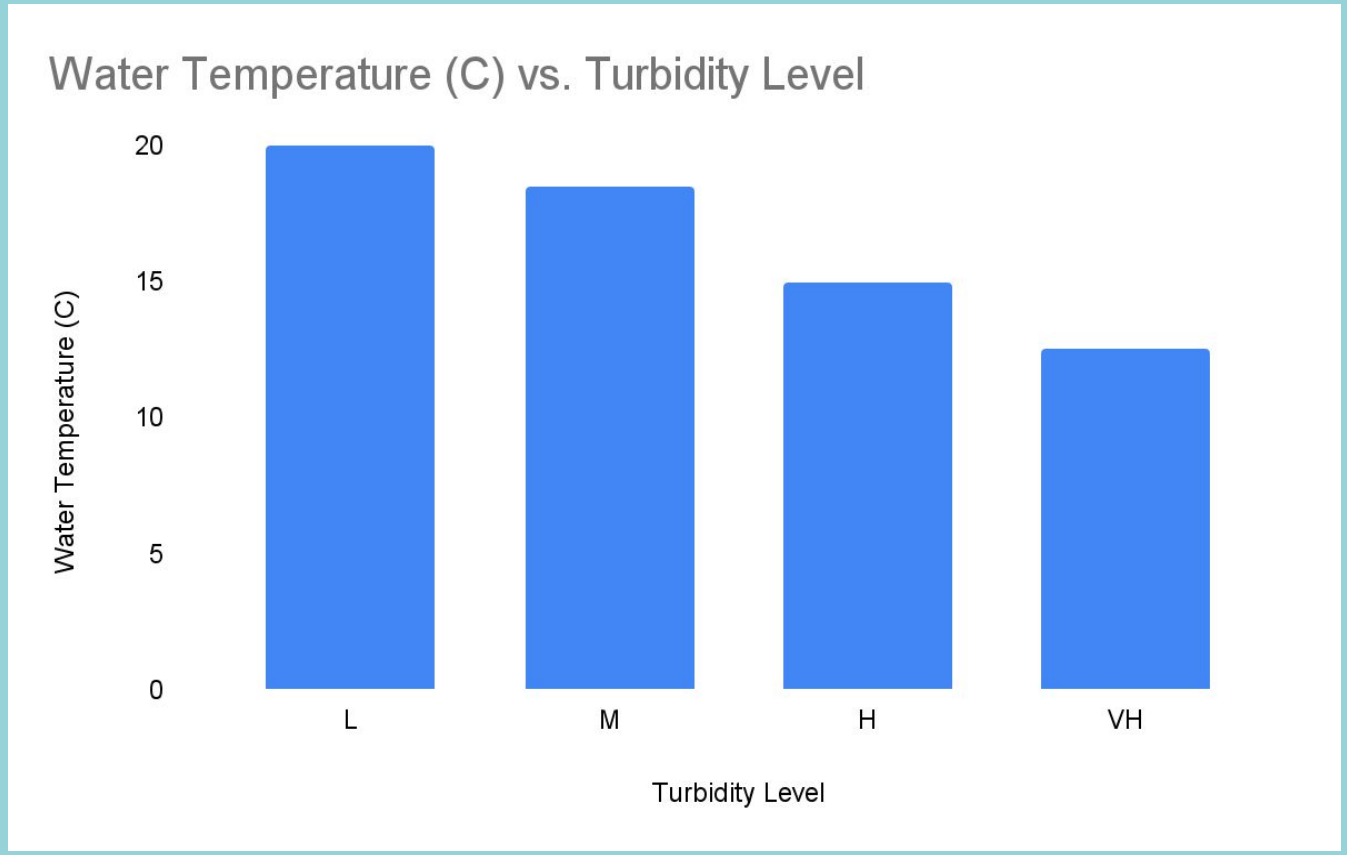
TURBIDITY LEVEL VS. WATER TEMP



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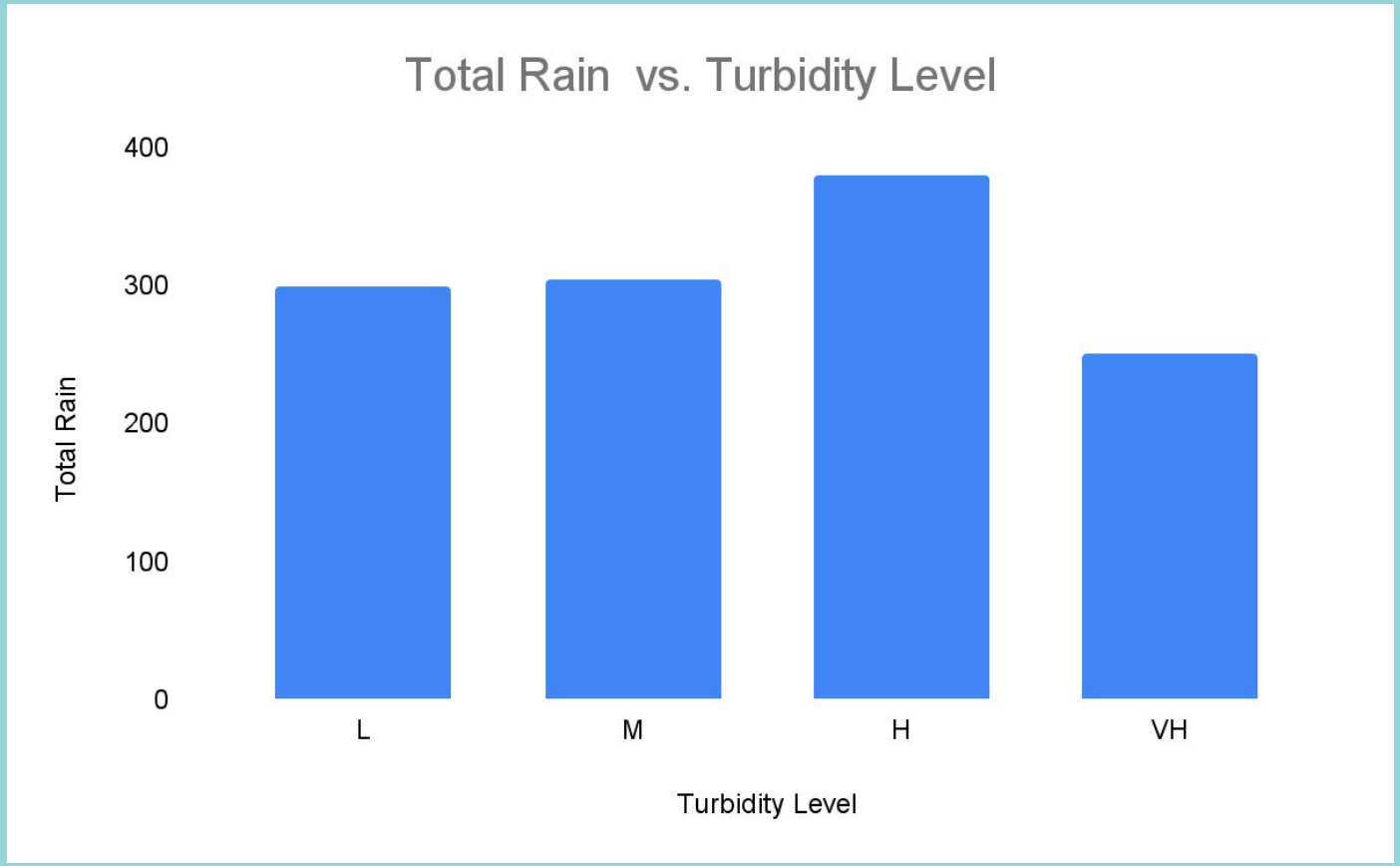

TOTAL RAIN VS. TURBIDITY LEVEL

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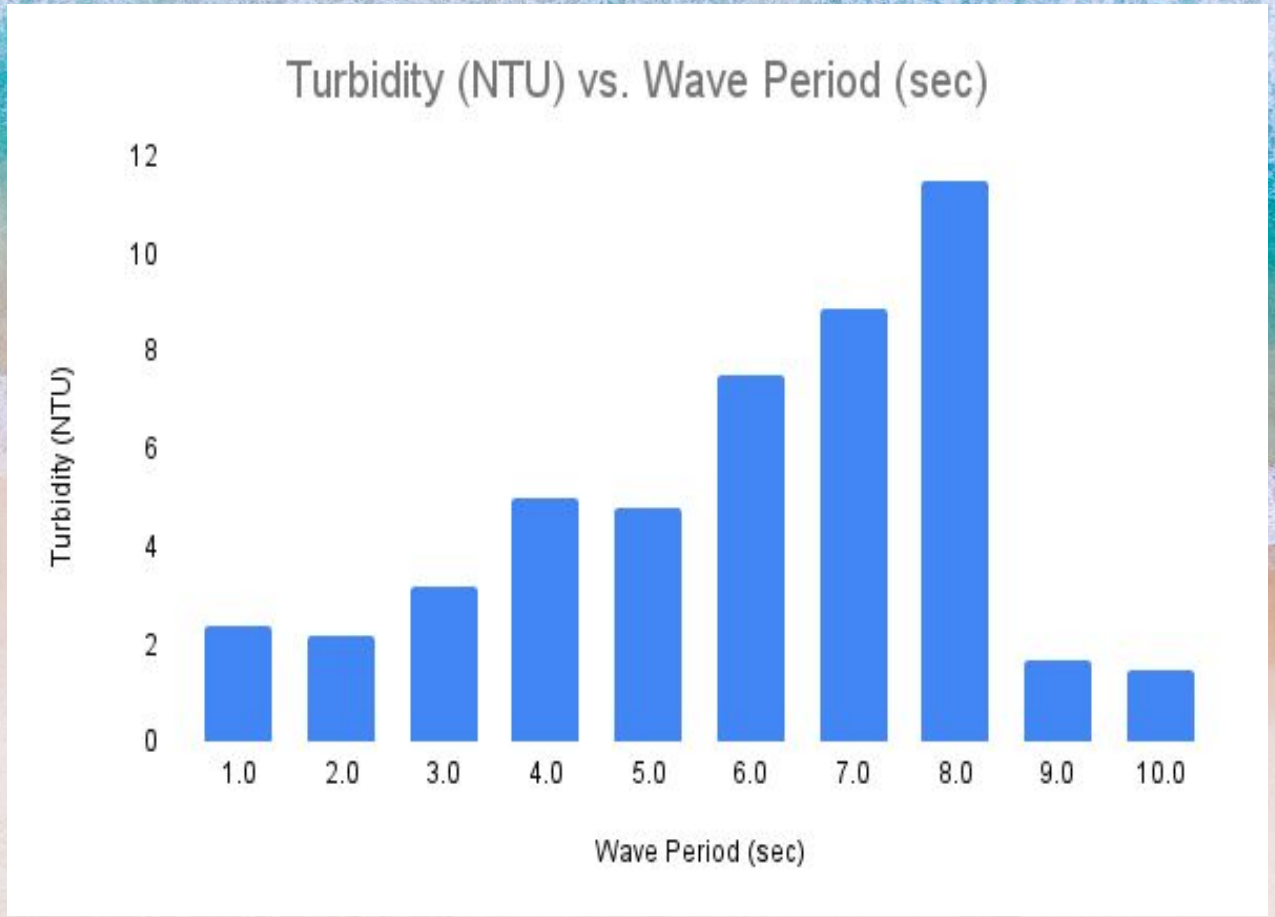

TURBIDITY (NTU) VS. WAVE PERIOD(sec)

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CONCLUSIONS:

- REDUCED SAMPLING TIME
  4HRS → 1HR

- SAFER BEACHES

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FUTURE RESEARCH

- ENSEMBLE MODELS
- ARTIFICIAL NEURAL NETWORKS

Thank you!

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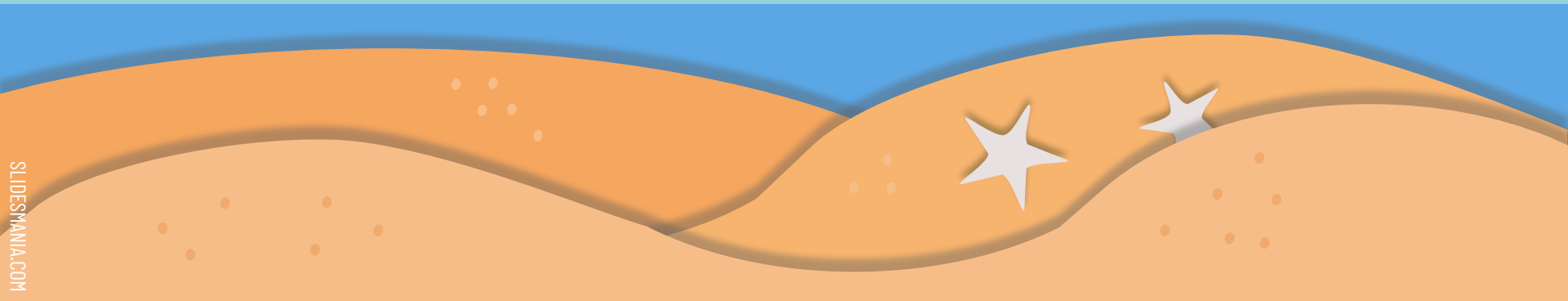

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