

Induction vs. Deduction

Inductive inference

constructs general propositions that are derived from specific examples

Example

• We drop things several times and they fall each time

• Conclusion: likely things always fall down when dropped

but we can never be sure, our conclusion can be wrong!

we draw uncertain conclusions from our relatively limited experience

**POTATOES HAVE SKIN. I HAVE
SKIN. THEREFORE, I AM A POTATO.**

INDUCTIVE REASONING

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statistics are inherently inductive

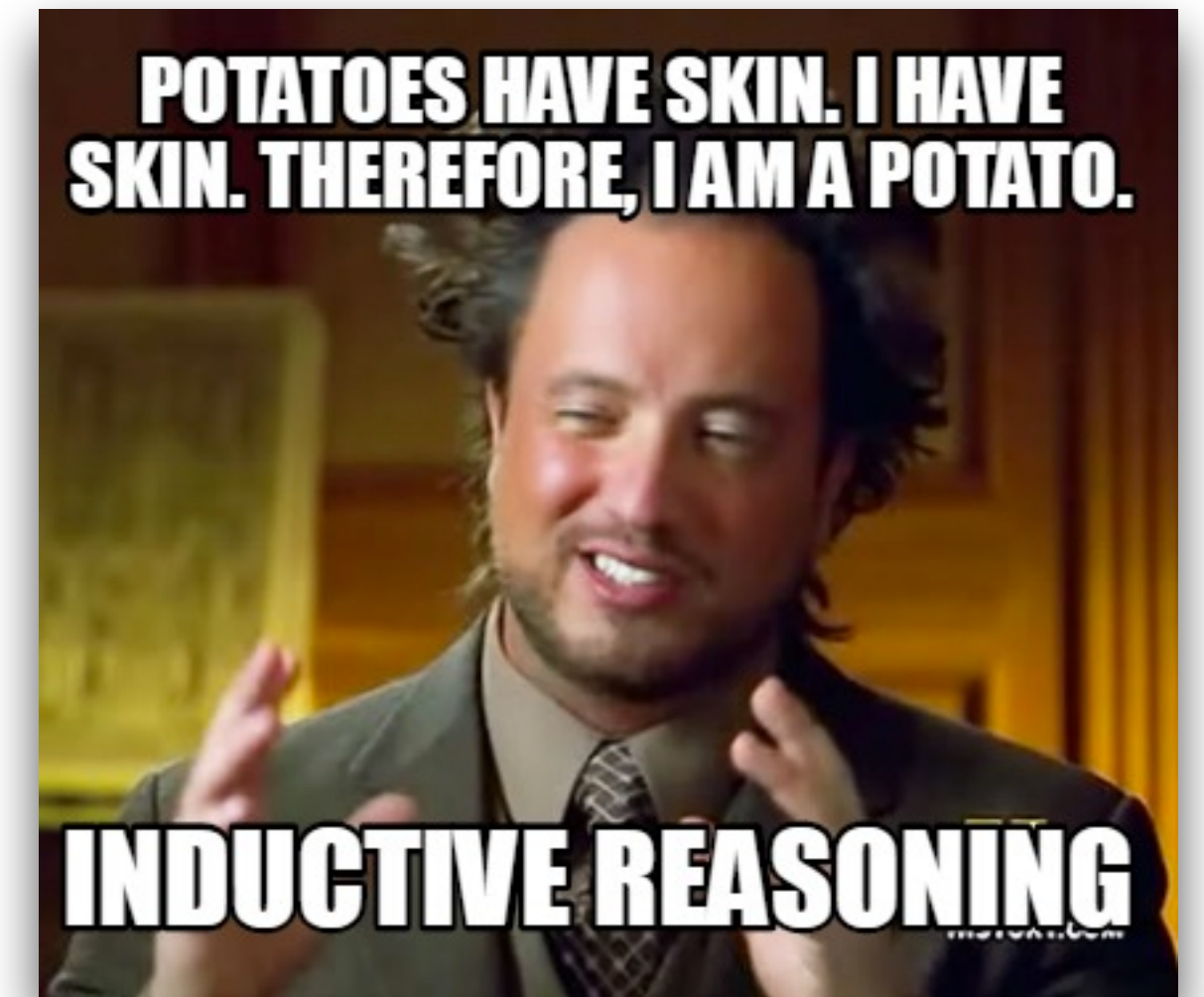
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constructs or evaluates general propositions that are derived from specific examples

Example

- We drop things several times and they fall each time
- Conclusion: likely things always fall downwards when dropped



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Statistical Learning