

# Public Libraries & AI



# 1. Transparency: The "Black Box" Problem

Series 2: AI Risks and Limitations



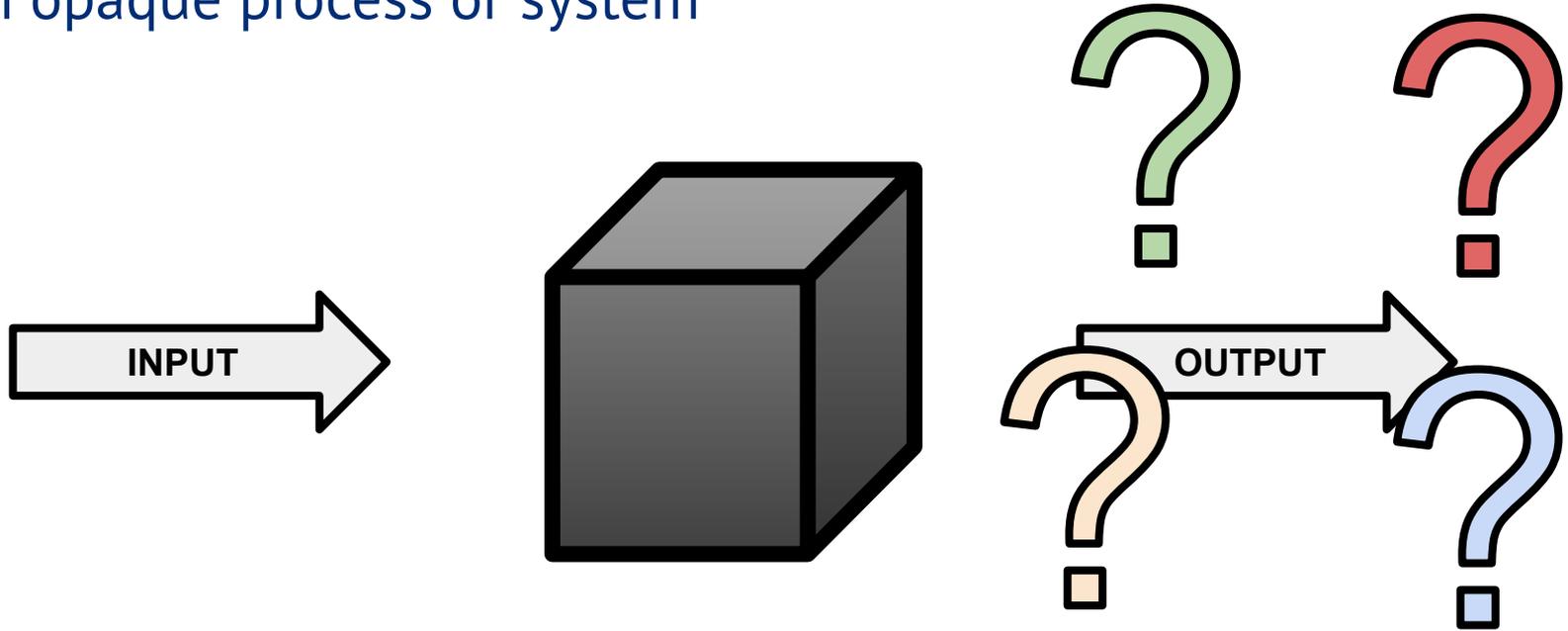
# The "Black Box" Problem

- An opaque process or system



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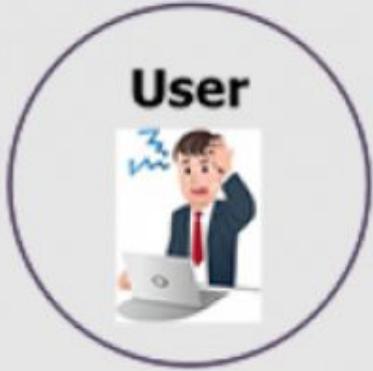


# What is the AI "learning" from?

Source	Description
CommonCrawl	Public Web Crawler Data
Wikipedia	Online Encyclopedia
Reddit	Community Forums
PubMed	Medical / Biology Archive
GitHub public repos	Open Source Software Code
Project Gutenberg	Public Domain Book Archive
"Books1, Books2, Books3"	Pirate / Shadow Libraries



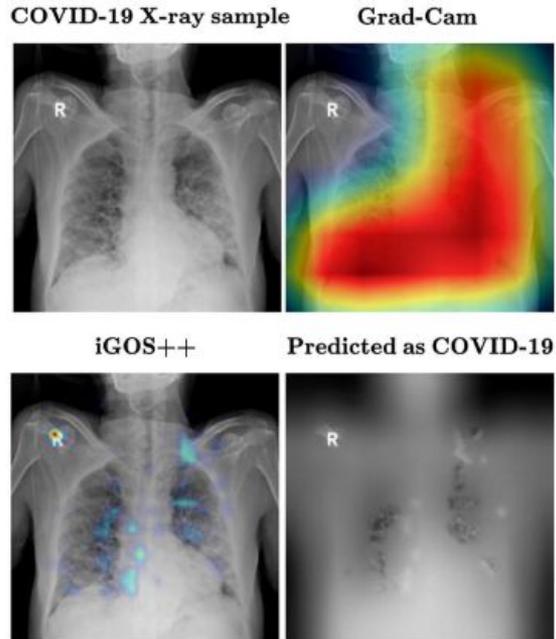
# The "Black Box" Problem



**User**

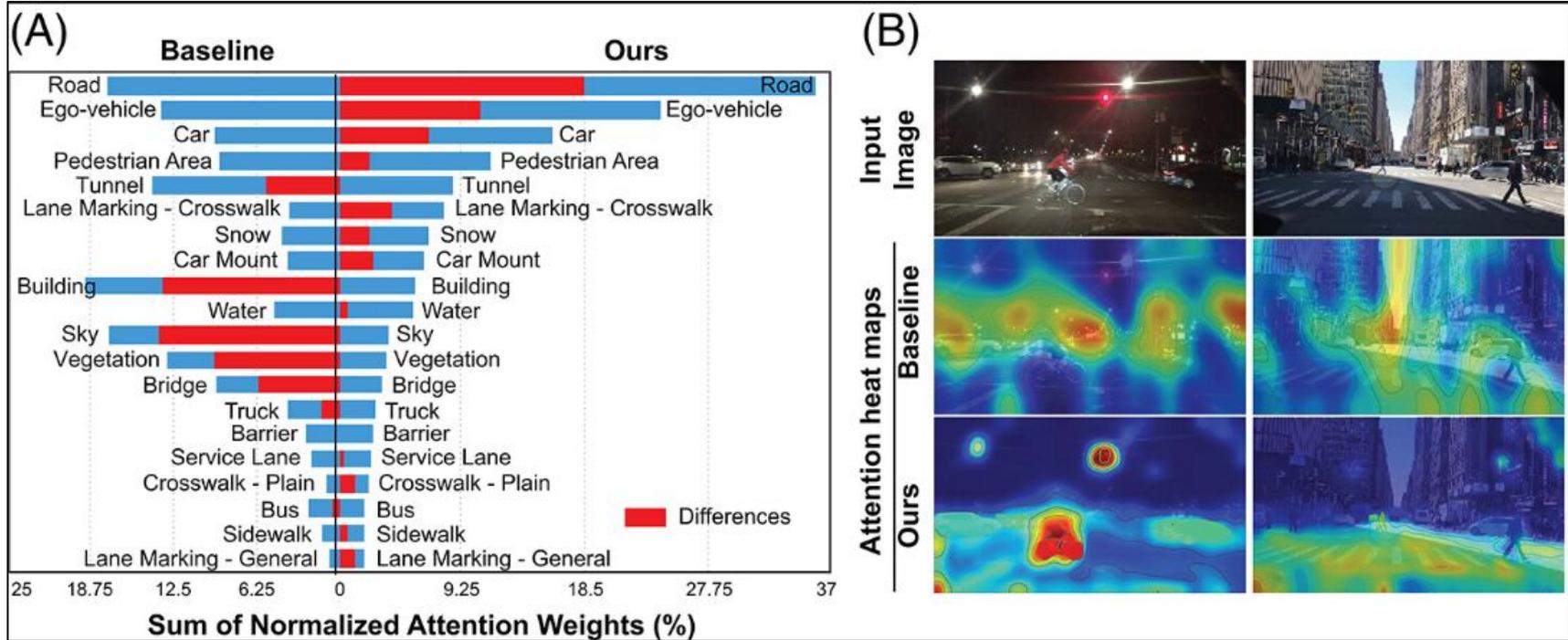
- Why did you do that?
- Why not something else?
- When do you succeed?
- When do you fail?
- When can I trust you?
- How do I correct an error?

# Why It Matters



Li, F., Qi, Z., Khorram, S., Shitole, V., Tadepalli, P., Kahng, M., & Fern, A. (2021). From heatmaps to structured explanations of image classifiers. *Applied AI Letters*. <https://doi.org/10.1002/ail2.46>

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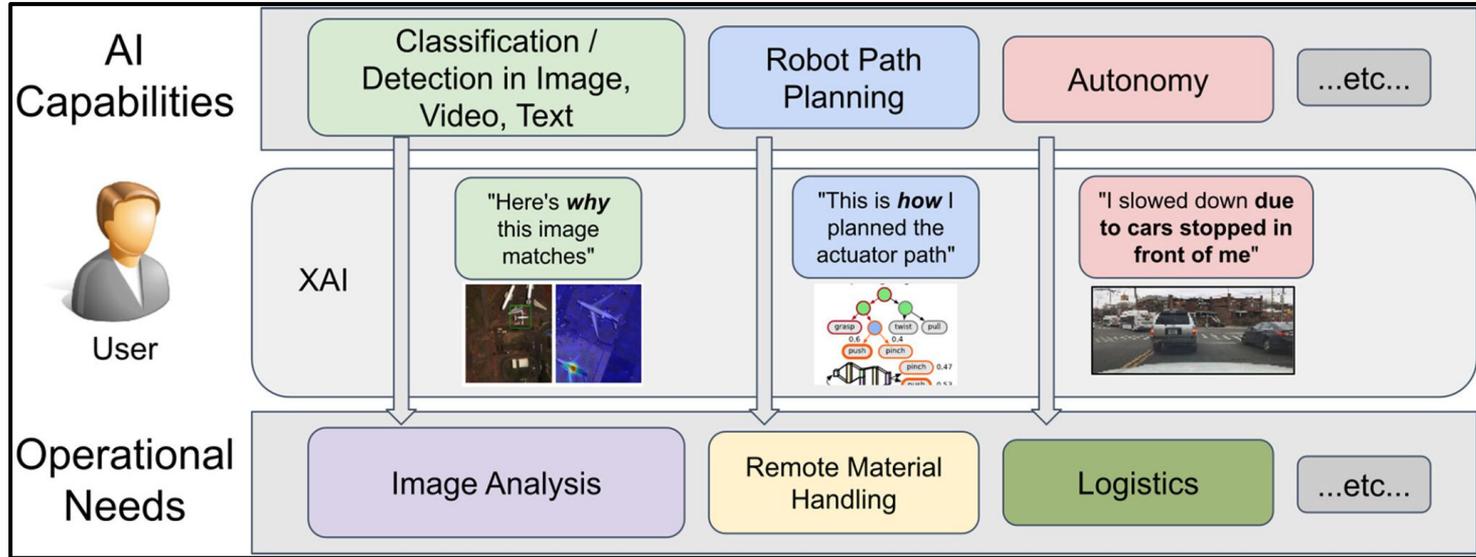
Kim, J., Rohrbach, A., Akata, Z., Moon, S., Misu, T., Chen, Y.-T., Darrell, T., & Canny, J. (2021). Toward explainable and advisable model for self-driving cars. *Applied AI Letters*. <https://doi.org/10.1002/ail2.56>

# Why It Matters



# Explainable AI ("XAI")

- Helps humans "see" inside the AI processes



# Coming up...

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- More risks and limitations: accuracy, context, and common sense

A white curved line graphic starts at the top left, curves down and to the right, ending in a starburst shape.

**Thanks for watching!**

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