What kinds of problems is AI good at solving?

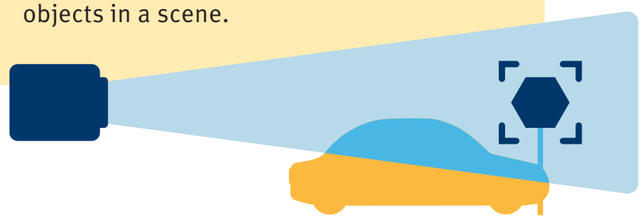
Artificial Intelligence (AI) refers to a collection of technologies that allow computers to use sets of instructions called **algorithms** to sense, learn, reason, and act.

Current AI algorithms are narrowly suited to specific tasks, including: classification, language analysis, planning, forecasting.

Museum of Science.

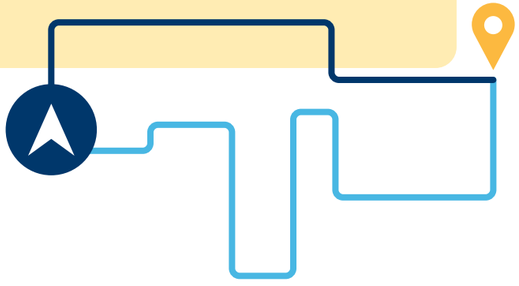
Classification

These AI algorithms learn from examples to group items by category, allowing them to recognize faces in an image or label objects in a scene.



Planning

These AI programs look for the best solutions to complex scheduling and routing challenges.

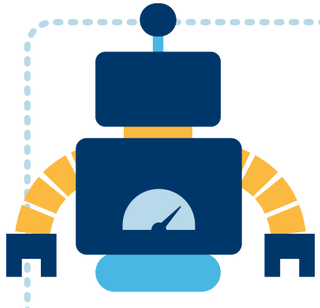


Language analysis

By training on large amounts of text, AI language models interpret, and even generate, speech.

Forecasting

By looking at data over time, these AI algorithms predict likely future scenarios, from weather conditions to movie preferences.



Robotics

Many robots make use of multiple AI techniques to help them sense their environment, and to plan actions or communicate information.

While AI and robotics are sometimes used interchangeably, they are two different, but closely related, fields.