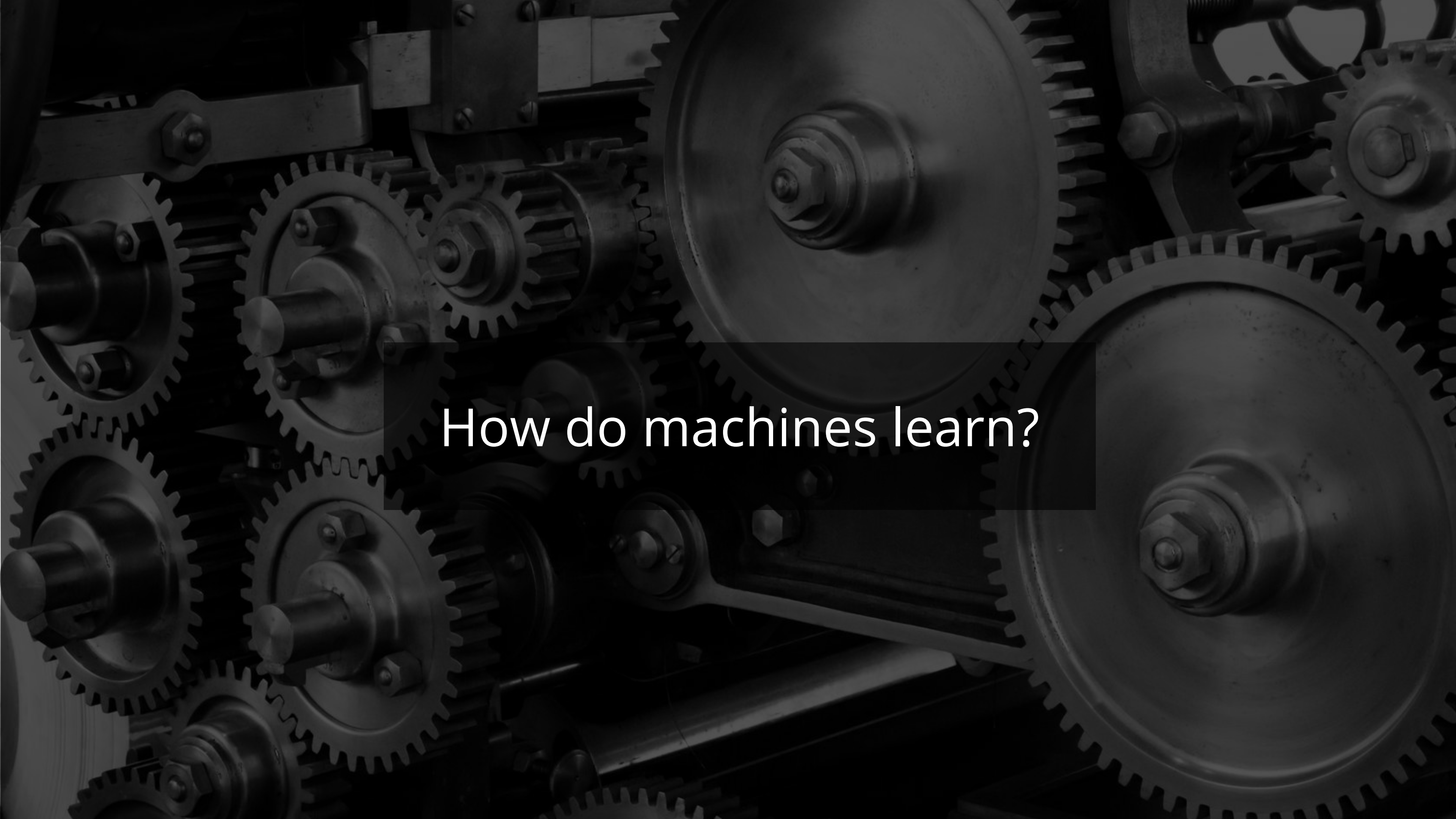


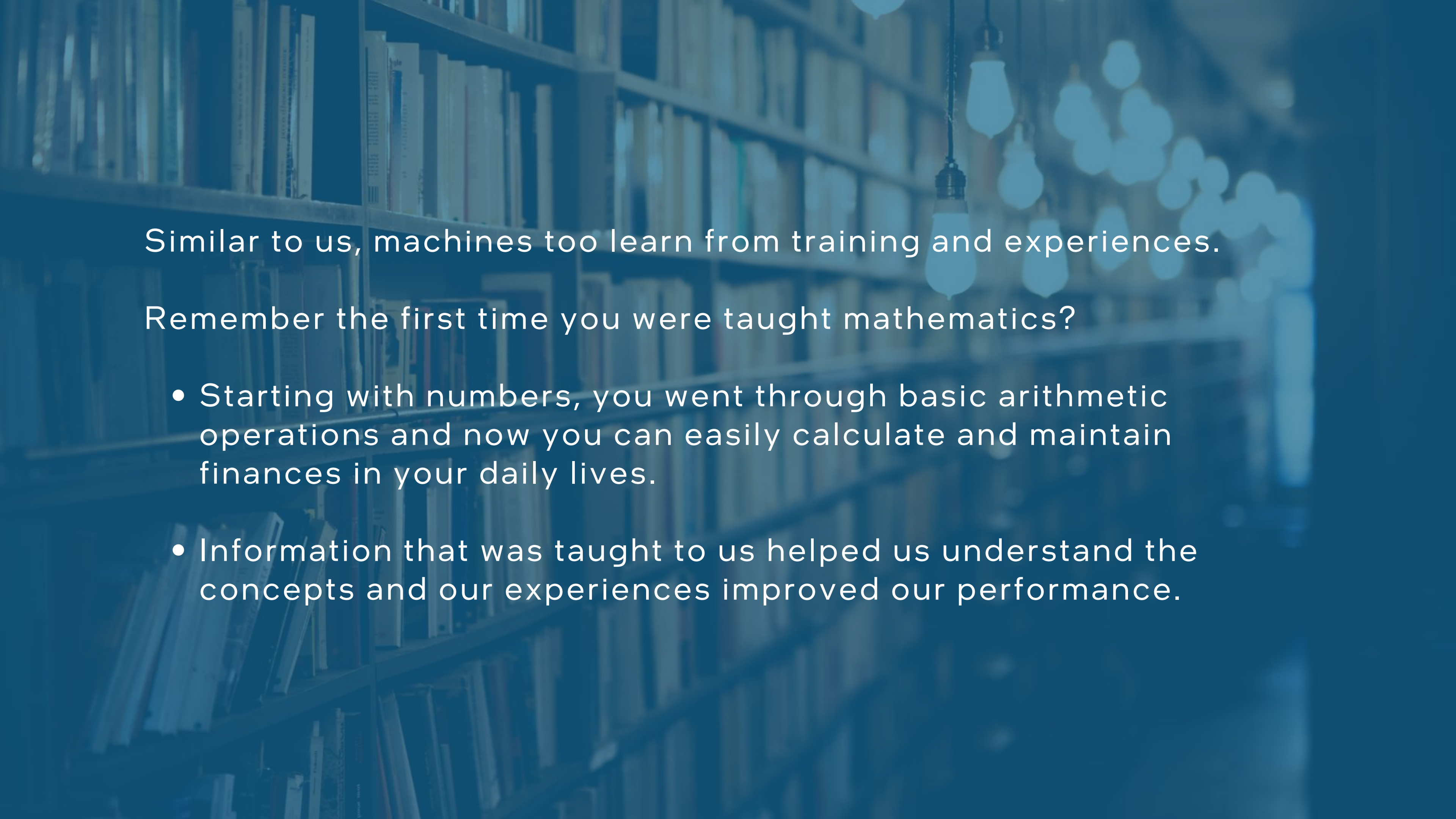


How do machines learn?

The background is a blue-tinted photograph of a library. It shows rows of bookshelves filled with books, receding into the distance. Several light bulbs are hanging from the ceiling, some in focus and others blurred, creating a bokeh effect. The overall atmosphere is quiet and intellectual.

After exploring the abilities of Artificial Intelligence, it is now time for us to see how does this happen.

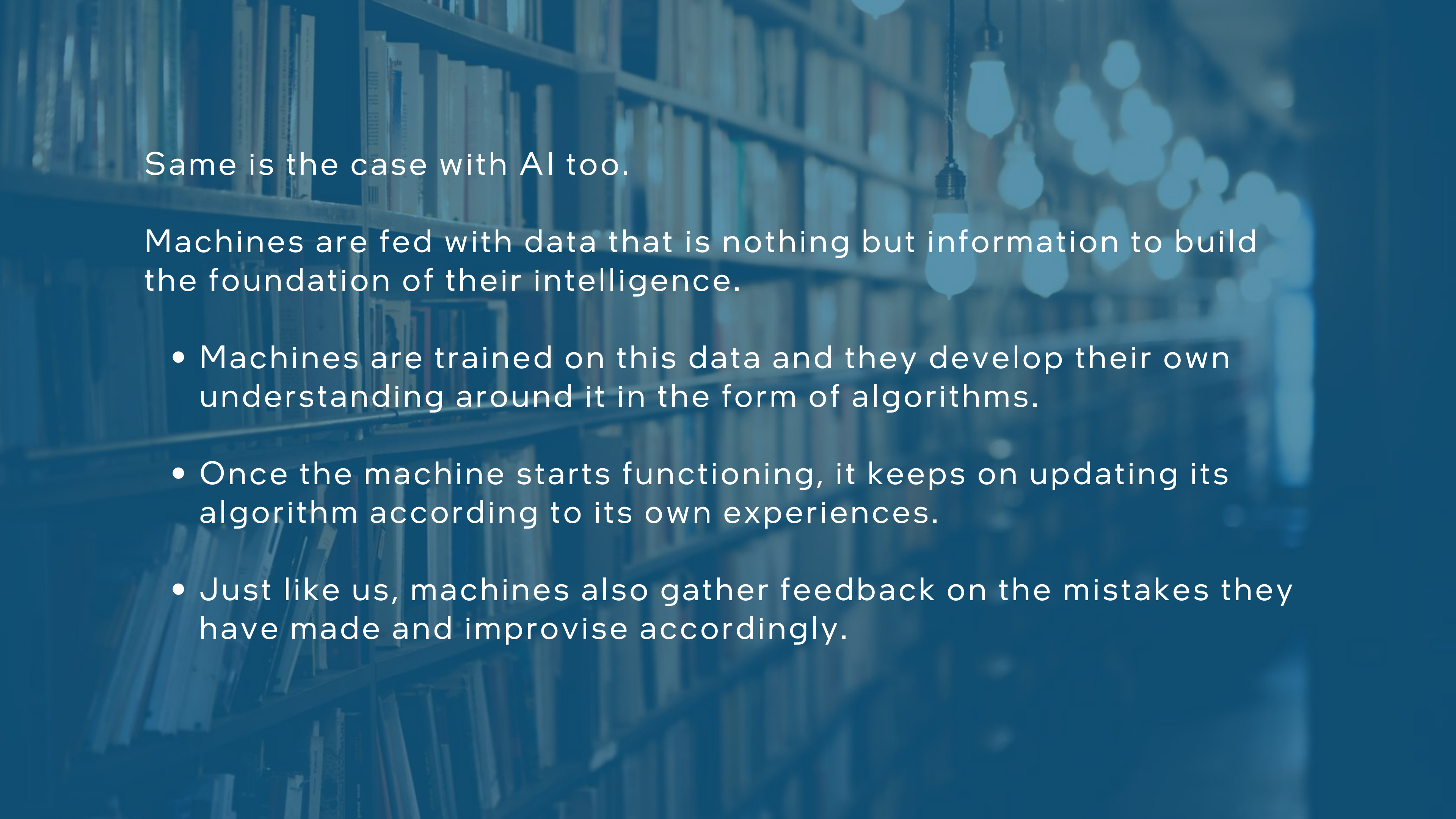
Let us understand this in two simple steps.



Similar to us, machines too learn from training and experiences.

Remember the first time you were taught mathematics?

- Starting with numbers, you went through basic arithmetic operations and now you can easily calculate and maintain finances in your daily lives.
- Information that was taught to us helped us understand the concepts and our experiences improved our performance.



Same is the case with AI too.

Machines are fed with data that is nothing but information to build the foundation of their intelligence.

- Machines are trained on this data and they develop their own understanding around it in the form of algorithms.
- Once the machine starts functioning, it keeps on updating its algorithm according to its own experiences.
- Just like us, machines also gather feedback on the mistakes they have made and improvise accordingly.

Here's how this actually happens:

1. The machine collects data - Data Acquisition
2. It analyses the data to find patterns - Data Exploration
3. It tries out different solutions - Solution Modeling
4. Receives feedback and figures the best out of them - Evaluation
5. It implements the optimal solution - Deployment