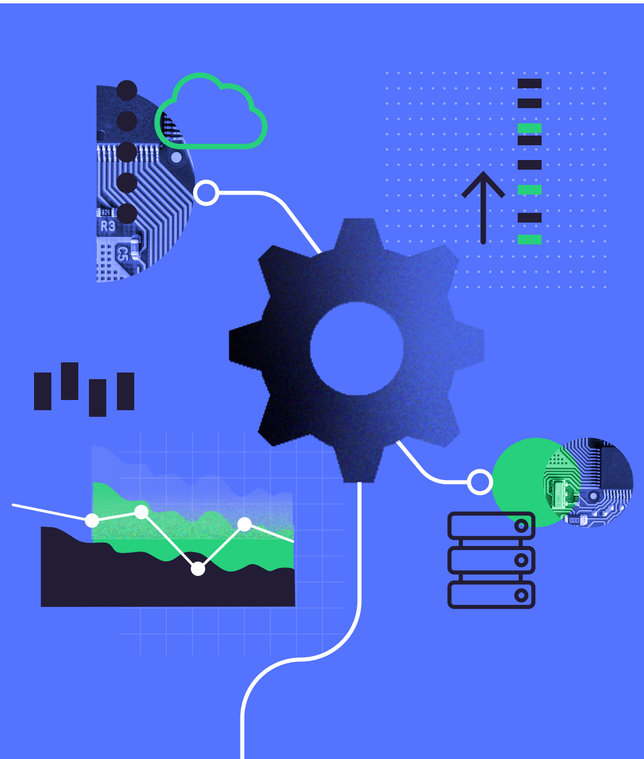
The Continued Rise of EDGE COMPUTING

and Why It Matters to the Enterprise

Edge computing puts the data processing and manipulation closer to the people producing and consuming it. It allows data from Internet of Things (IoT) devices to be analyzed **“on the edge”** of the network before being sent to a data center or cloud.

As long as growth of the IoT continues, so will the integration of edge computing to deploy high-value machine learning models on many cheap and constrained devices.



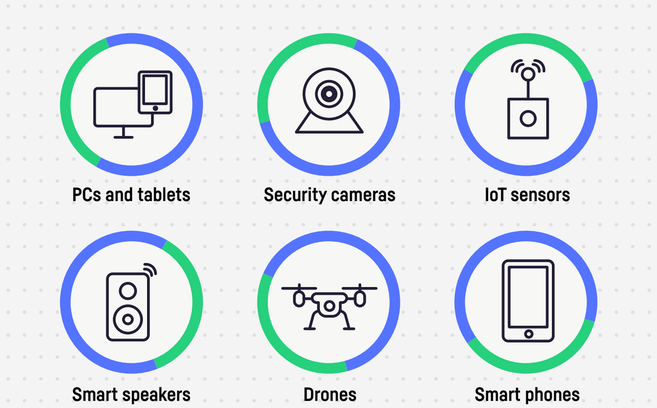
50%

IDC predicts that by 2023, over 50% of new enterprise IT infrastructure deployed will be at the edge, rather than corporate data centers, up from less than 10% today.[1]

But... WHERE IS THE COMPUTING DONE?

→ On an edge device.

An edge device is a special computing unit that can be placed within the environment to capture, manipulate, analyze, and make decisions on what actions should be taken and in what areas. Examples include:



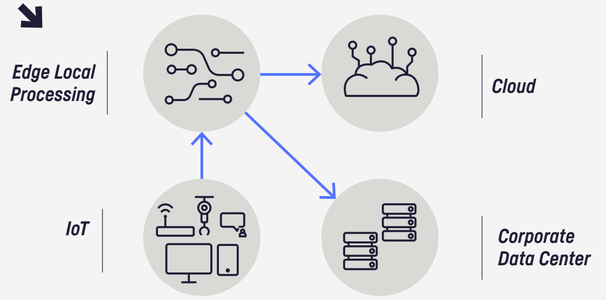
2.6B

By 2025, AI edge devices will increase to 2.6 billion units worldwide annually (from 161.4 million units in 2018).[2]

1. https://blogs.idc.com/2020/06/01/edge-computing-not-all-edges-are-created-equal/
2. https://www.businesswire.com/news/home/20180913005354/en/Artificial-Intelligence-Edge-Device-Shipments-to-Reach-2.6-Billion-Units-Annually-by-2025-According-to-Tractica#:~:text=Tracti-ca%20forecasts%20that%20AI%20edge,units%20worldwide%20annually%20by%202025
3. https://www.statista.com/topics/6173/edge-computing/

HOW EDGE COMPUTING WORKS

Edge computing allows data from IoT devices devices to be analyzed at the edge of the network before being sent to a data center of cloud.



With Edge Computing, Organizations Can:

- **Avoid latency issues** that can hurt an application’s performance
- **Save network bandwidth** for high-priority data manipulation and analysis
- **Process and store data more rapidly,** allowing for the use of more real-time applications
- **Train, load, and inference** machine learning models closer to the user

$15.7B

By 2025, the global edge computing market is slated to be $15.7 billion.[3]

Go Further: Edge Computing on Drones

This technical ebook highlights the joint product collaboration between Dataiku and UAVIA that resulted in a groundbreaking, fully automated solution for training and deploying machine learning models for edge computing on drones.

Let’s Go!