Introduction to the AI Ladder and Fundamentals of AI

No Al without IA

First Step in the Ladder: Collect Data

Ladder: Organize Data

Third Step in the Ladder: Analyze Data





Video: Ladder to Al: Analyze

 Video: Our Story: Analyze

Our Story: Ana 5 min

(ii) Quiz: Check for Understanding: Analyze Data

Final Step in the Ladder:

End of module review & evaluation

The Al Ladder: A Framework for ... > Week 1 > Analyzing your data

## Analyzing your data

Once organizations have been able to collect their data and organize it in a trusted, unified view, they can now tap into that data to build and scale AI models across their business.

In order to build AI models from the ground up and scale them across the business, organizations need capabilities covering the full Al lifecycle. This includes:

- Build: At this phase in the Al lifecycle, it is critical to ensure companies use the right algorithms to build their models for making predictions.
- Run: Put custom models into production, in an application or business process. Once a model is built and running, the question becomes: how can it be scaled with trust and transparency? This is where management plays a crucial role.
- Manage: By having the management in place, organizations can track who changed the model, when the model was deployed, and the lineage on the model. By tracking all these items, organizations can ensure their models are not biased, and that they're explainable and transparent.

In today's world of regulations, General Data Protection Regulation (GDPR), and data privacy laws, the way organizations engage with Al is under intense scrutiny. Organizations need to manage their Al across the entire Al  $lifecycle\ in\ order\ to\ explain\ either\ to\ a\ consumer, or\ another\ business, how\ their\ systems\ came\ to\ a\ decision\ and\ why.$ 

For example, a bank needs to be able to tell a consumer what the factors were behind their loan being denied, and what they would need to do to change that decision.

Ultimately what is needed is a set of modular components, flexible environments, and tools that make analyzing data and building Al models easier and more accessible. These tools should be based on open source frameworks which support a multicloud environment, and a full end-to-end automated lifecycle which enables trust and transparency.

For example, fraud activities have only continued to increase at a rapid pace over the years. Fraud is difficult to predict, That's because the data is overwhelming and information is siloed, making it difficult to get a "360 degree" view. This leads to false positives or missed alerts, costing companies hundreds of millions of dollars. In this context, data  $analysis\ is\ based\ upon\ predictive\ in sights,\ real-time\ analysis,\ sophisticated\ modeling\ techniques\ and\ automation$ technologies, all in a governed and secure environment.



Go to next item







