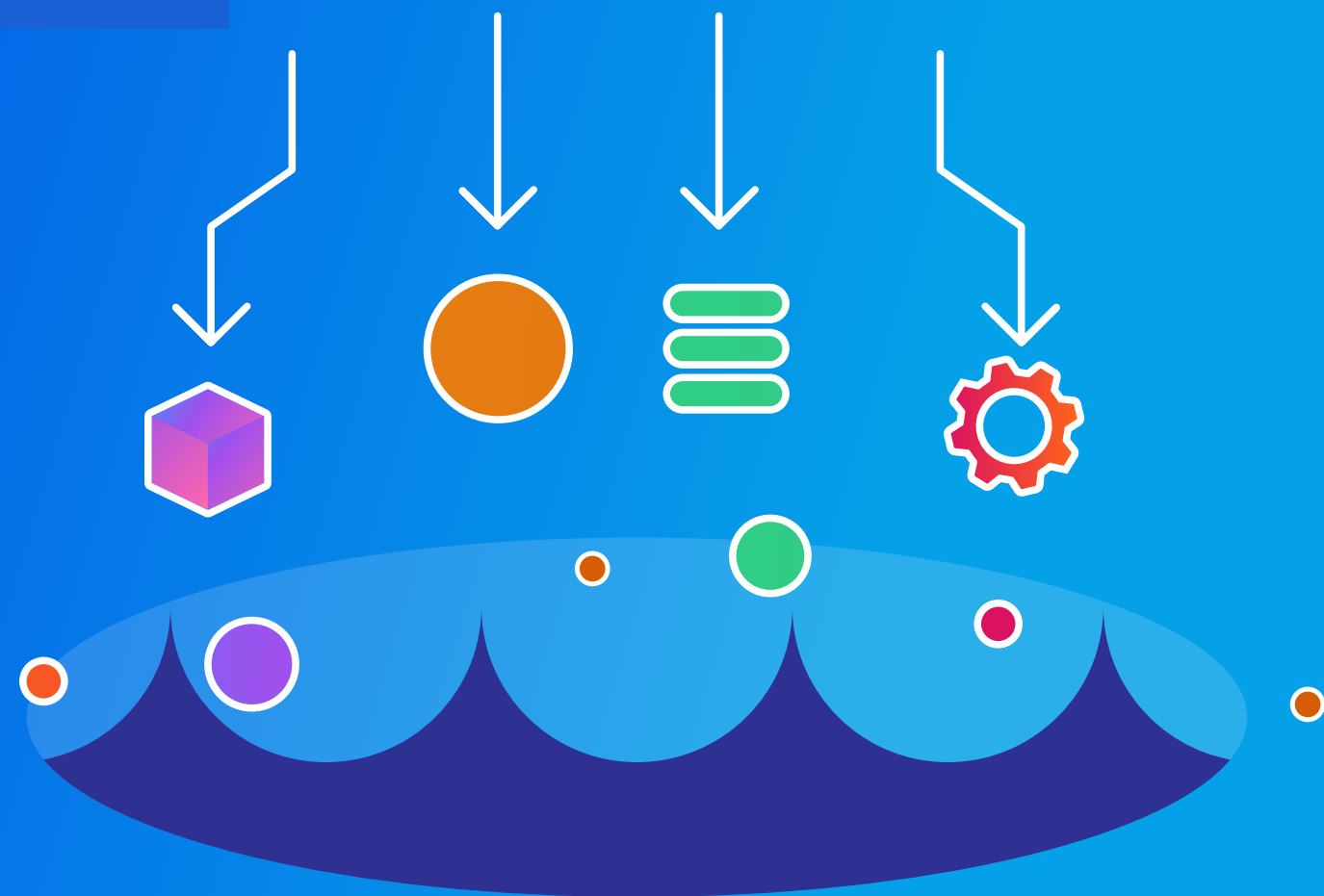


# Composable Platform to Unify Data Warehouse and Advanced Analytics - **Lakehouse**



# Delta Lake and Delta Sharing

*Leverage data already existing in Data Lake/Warehouse by creating Delta lake to establish an open foundation for lake house promoting reliability and high performance.*

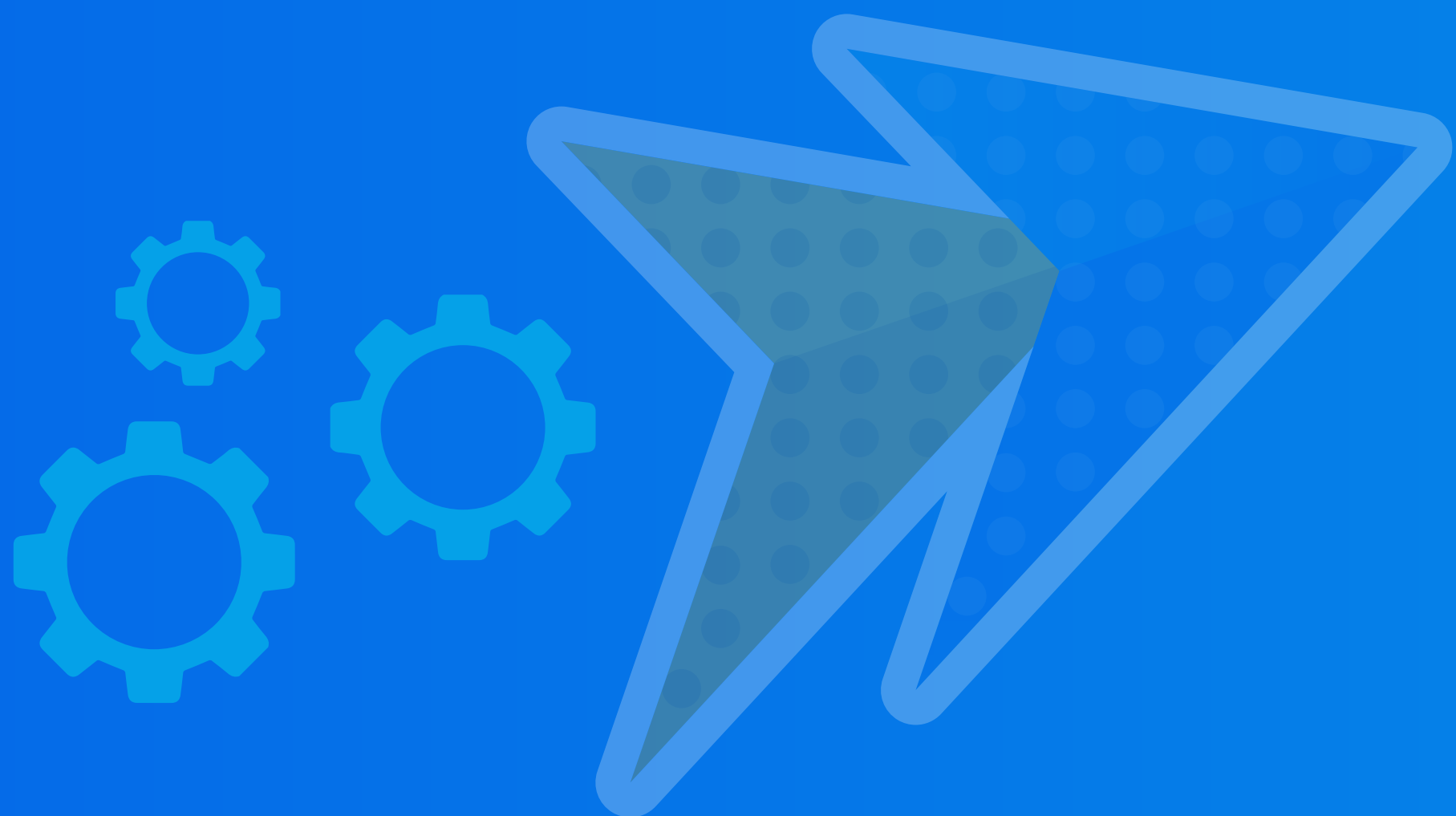
# Bring quality and governance to your Data Lake

*Consider ACID Transaction for Consistency and Schema support for trustable Data. Prevent data misuse with role-based access, GDPR, CCPA, and other regulatory requirements*



# Optimize Data Performance for Faster Insights

*Use Optimization techniques  
Like Caching, Multidimensional  
clustering, and Data Compaction.*



# Provide native support for Machine Learning

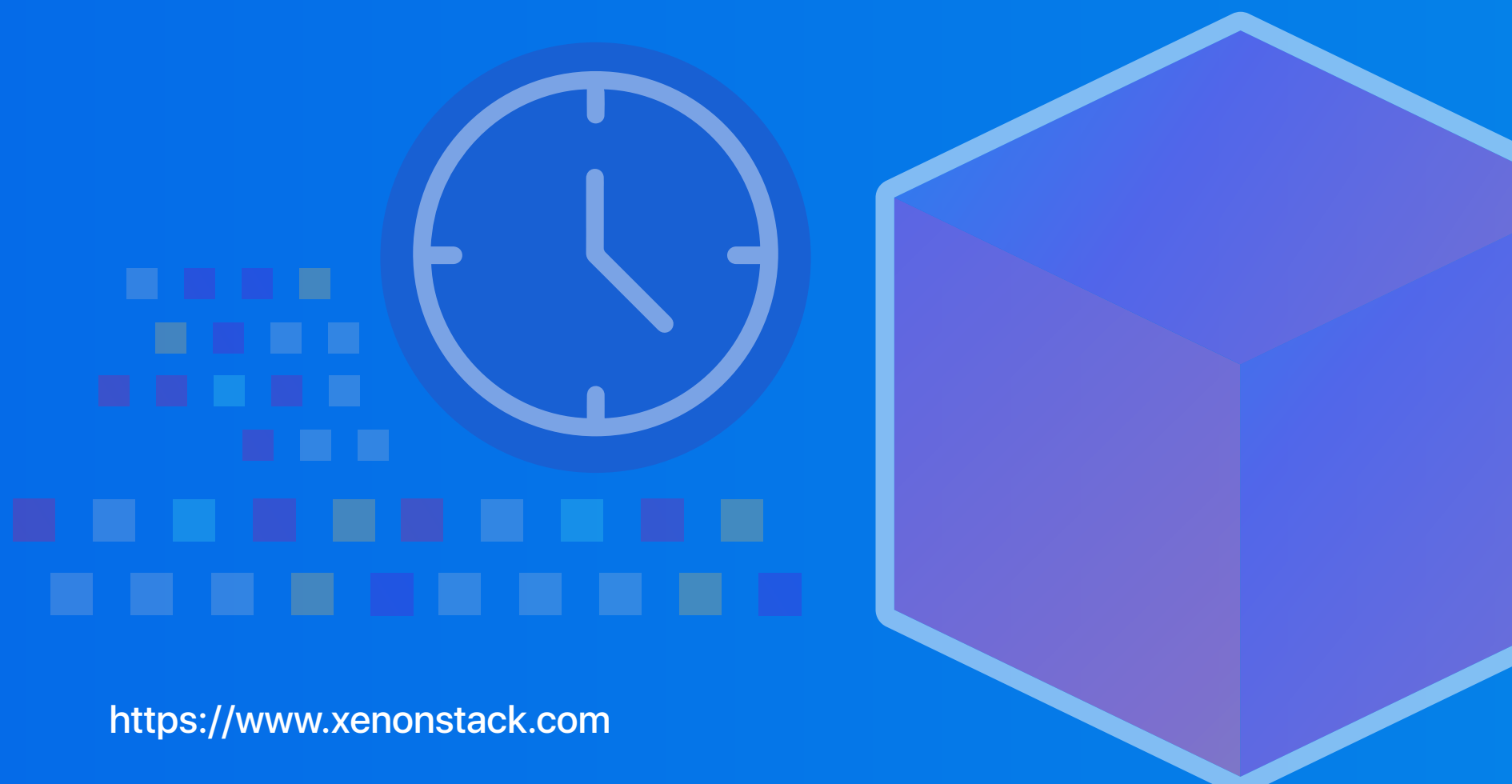
*Supports Data versioning, non-SQL reads, storage for diverse data.*

*Along with support for DataFrame API via a built-in declarative DataFrame API*



# Prevent lock-in by using open data formats and APIs

*Open Data formats like Apache Parquet and ORC along with Open APIs can help avoid lock-in*



# AI Marketplace - Build & Train Future with AI



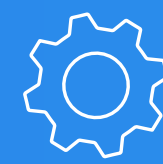
**AI Applications**



**Data Science Products**



**Data Models**



**Data Products**

# AI Marketplace - Build & Train Future with AI



## AI Applications

*Enterprise AI, ready-to-use software packages with pre-built data models and ML analytics, to solve specific use cases.*



### Computer Vision

Computer Vision gives us the ability to teach a computer to make meaning of the physical world through vision.

[View All](#)

#### Colorful Image Colorization

Colorful Image Colorization is an algorithm that takes in a black & white photos and returns the colorized version of it.

[Try It Now >](#)

#### Image Similarity

Compare two images for similarity.

[Try It Now >](#)

#### OCR

Use character recognition to extract text from an image.

[Try It Now >](#)

#### Gender Classification

Classifies the gender of a person in a given image.

[Try It Now >](#)





## Data Science Products

*A vast library of Data Science Products for*  
*– analytics and machine learning assets*  
*– to help accelerate the deployment of AI*  
*and analytics-based solutions.*



### Text Analysis

Text Analysis or Natural Language Processing (NLP) is a way for computers to analyze, understand, and derive meaning from human language in a smart and useful way.

[View All](#)

#### Sentiment Analysis

Determine positive or negative sentiment from text. This algorithm takes an input string and assigns a sentiment rating in the range [0-4].

[Try It Now >](#)

#### Text Similarity

This algorithm will compare documents (can be any kind of document) and report which documents are the most similar.

[Try It Now >](#)

#### Language Detector

Language Detector analyses a given text and detects the language it is written in.

[Try It Now >](#)

#### AutoTag

This algorithm takes in raw text, either on its own, or as a set of documents, and outputs candidate tags for the text.

[Try It Now >](#)

# AI Marketplace - Build & Train Future with AI



## Data Models

*Become an agile data-engineering organization with customized Data Models for enterprise's needs*



### Machine Learning

Machine learning is a set of mathematical approaches to teaching computers to learn based on large quantities of data, instead of human step by step instruction.

[View All](#)

#### Programming Language Identification

This algorithm detects the programming language of source code with high accuracy (about 99.4% top-1 accuracy for a Github dataset).

[Try It Now >](#)

#### Face Recognition

Face Recognition is a state-of-the-art deep learning algorithm that can train on human faces and recognize them later.

[Try It Now >](#)

#### Image Classifier

Highly Accurate Image Classifier.

[Try It Now >](#)

#### Object Detection

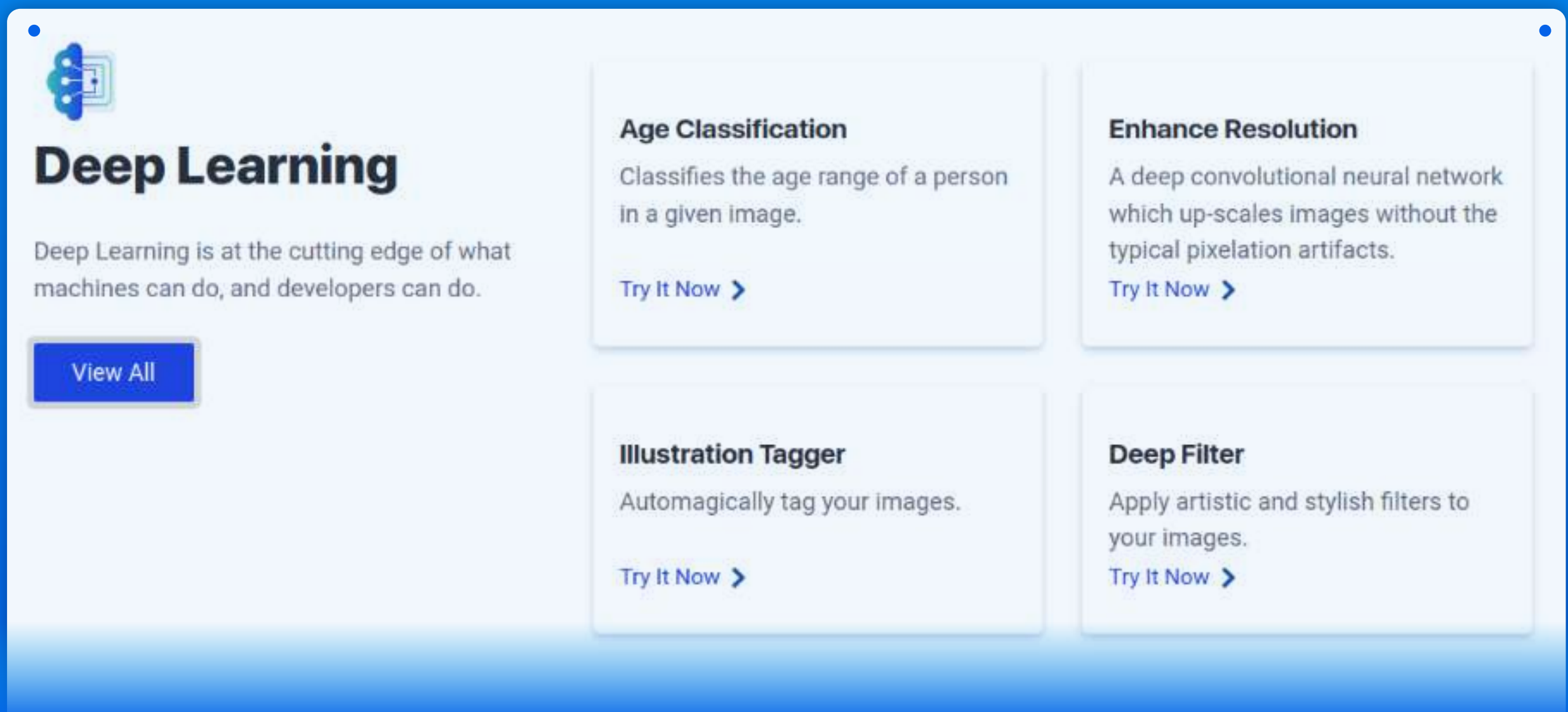
This algorithm is able to discover not only what's in an image, but where it is too!

[Try It Now >](#)



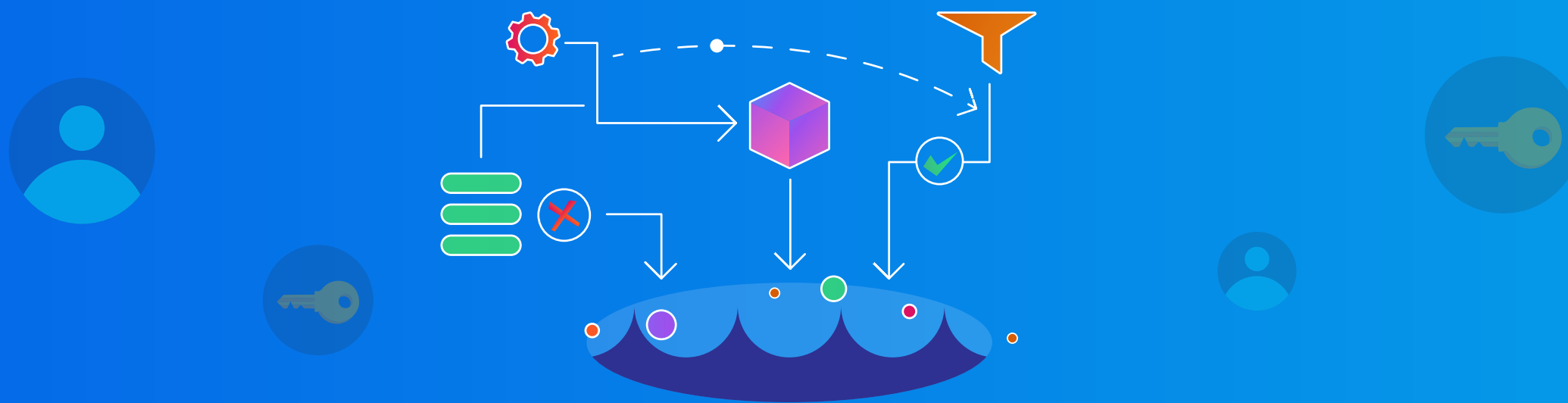
## Data Products

*Provide teams with data products like training datasets, connectors, governance protocols, and analysis tools as building blocks of enterprise application development.*



The screenshot displays a user interface for an AI Marketplace. On the left, there is a section titled "Deep Learning" with a sub-header "Deep Learning" and a description: "Deep Learning is at the cutting edge of what machines can do, and developers can do." Below this is a "View All" button. To the right, there are four product cards, each with a title, a brief description, and a "Try It Now" link with a right-pointing arrow.

- Age Classification**: Classifies the age range of a person in a given image. [Try It Now >](#)
- Enhance Resolution**: A deep convolutional neural network which up-scales images without the typical pixelation artifacts. [Try It Now >](#)
- Illustration Tagger**: Automagically tag your images. [Try It Now >](#)
- Deep Filter**: Apply artistic and stylish filters to your images. [Try It Now >](#)



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Silver Data Platform  
Silver Data Analytics



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