

# Introduction to Machine Learning

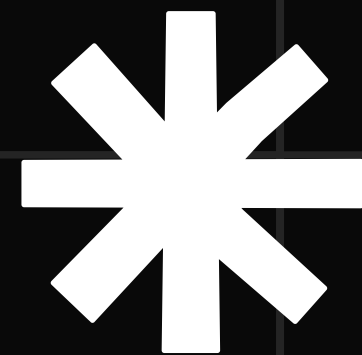
Presented by Seanrei Valdeabella

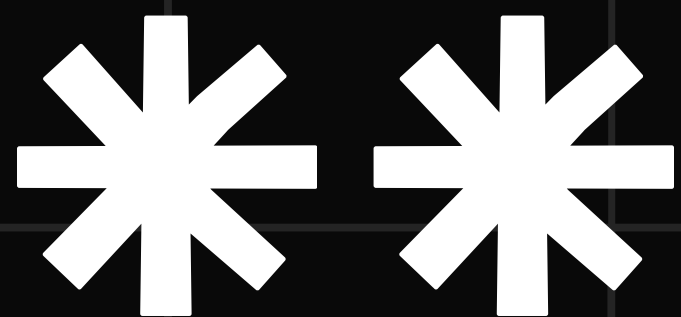




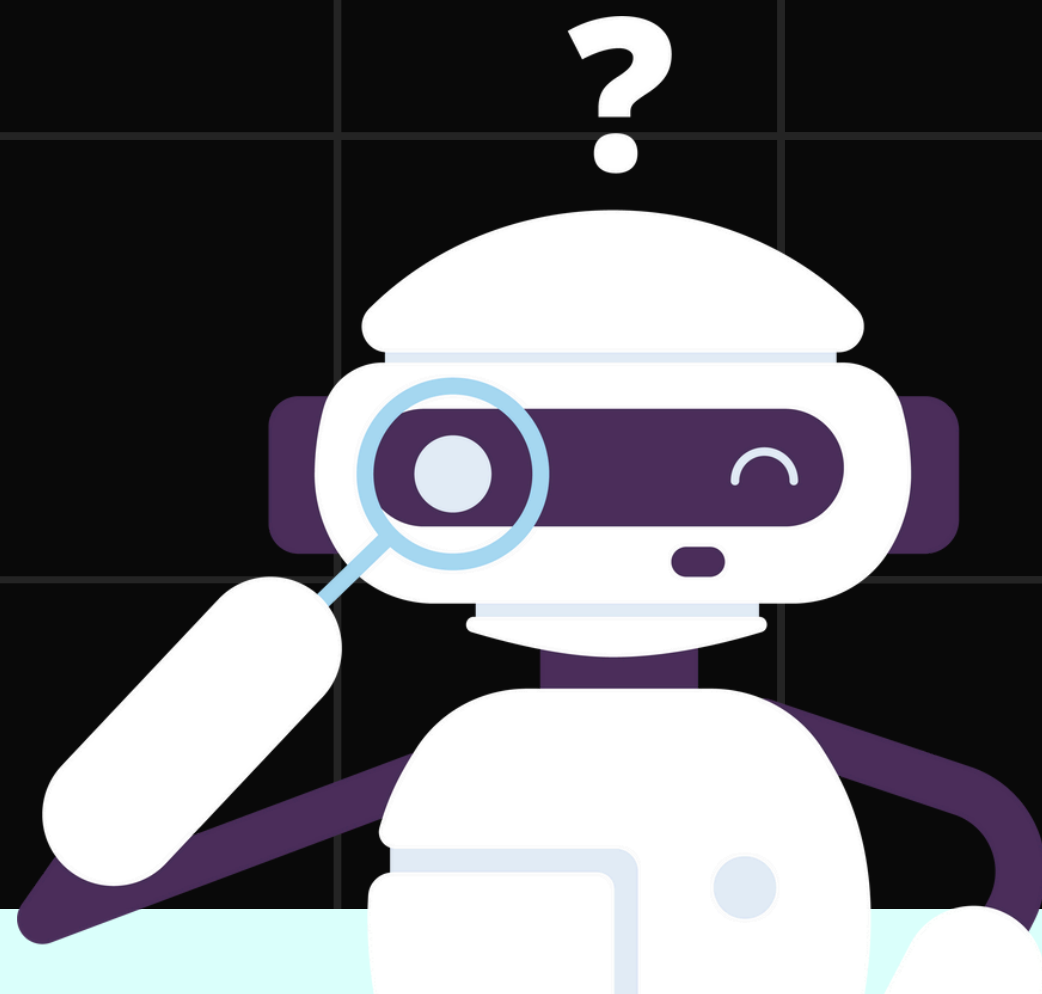
Machine learning (ML) is a subset of artificial intelligence (AI) that allows systems to learn from data, identify patterns, and make decisions with minimal human intervention.

**It is revolutionizing industries such as healthcare, finance, and marketing.**





# Healthcare



## Problem Being Solved

Machine Learning is applied in medical imaging for detecting diseases like cancer or diabetic retinopathy from MRI scans and X-rays

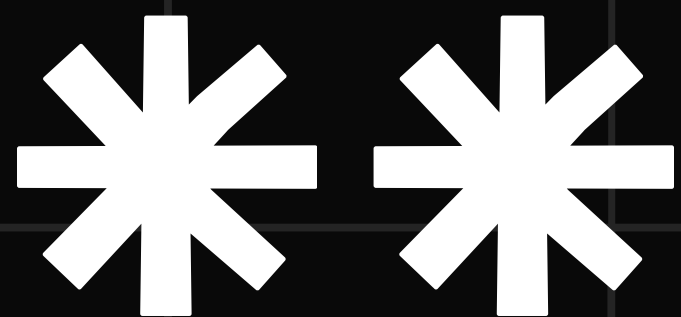
## Types of Machine Learning Used

Supervised Learning: Systems are trained on labeled datasets containing examples of healthy and unhealthy tissues.

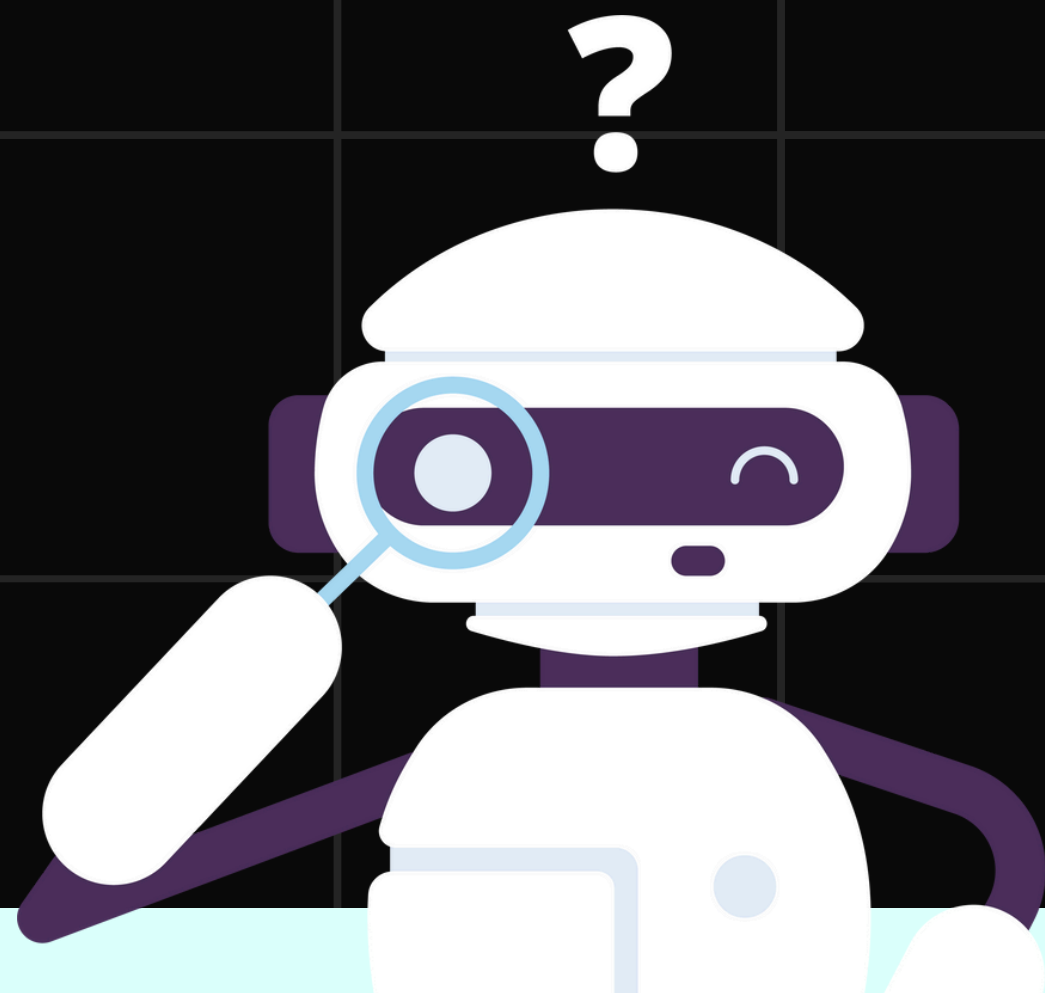
## Impact of the Solution

Increased diagnostic accuracy, enabling early detection of diseases, reducing diagnostic errors, and supporting healthcare professionals in making faster decisions.





# Finance



## Problem Being Solved

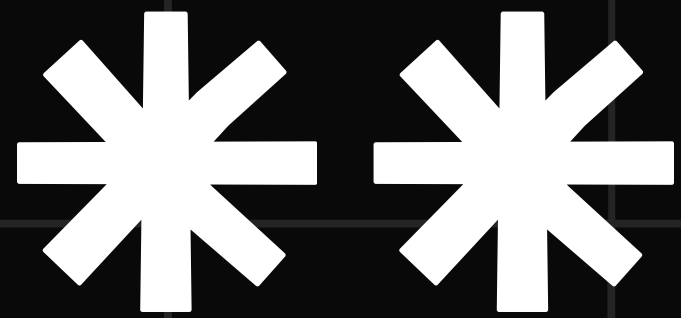
In fraud detection, machine learning algorithms analyze transaction data to detect unusual patterns that indicate fraudulent activity.

## Types of Machine Learning Used

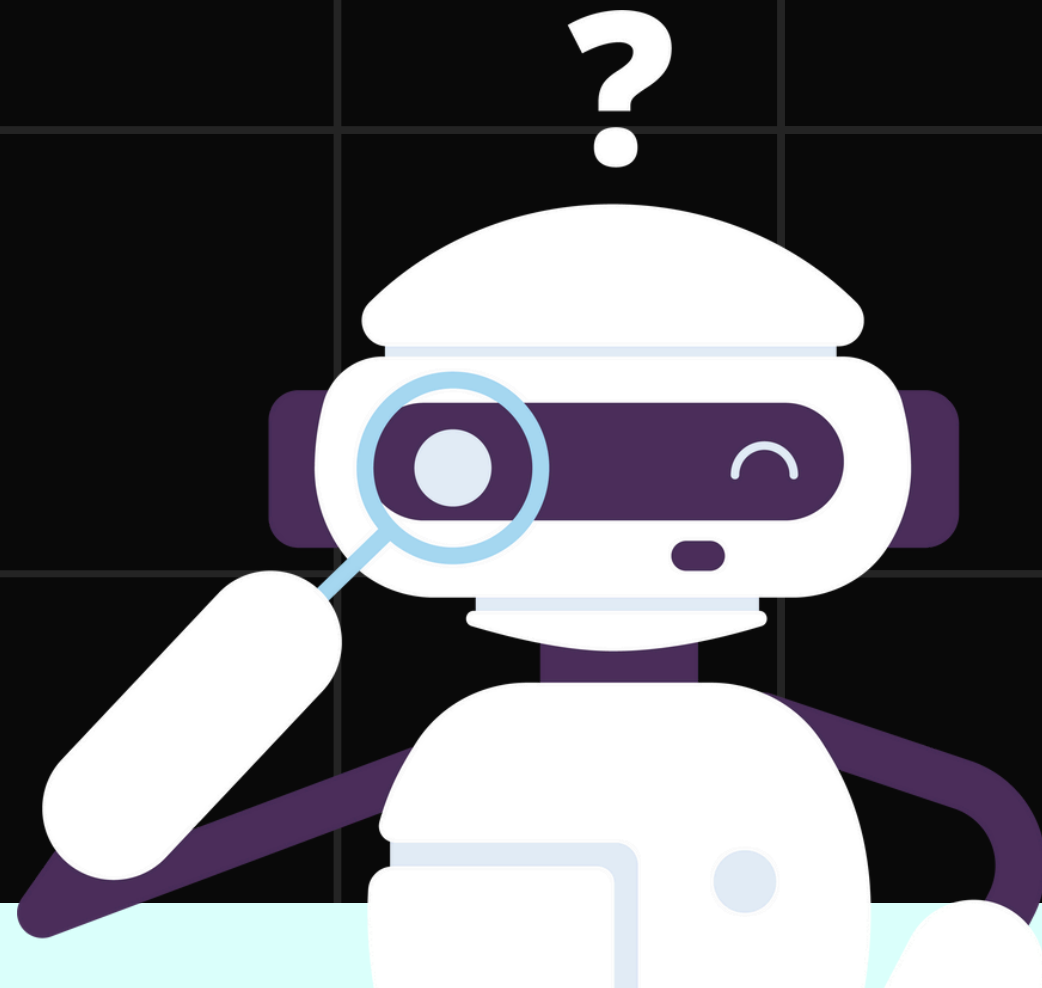
Unsupervised Learning: Algorithms detect outliers and anomalies in vast amounts of transaction data without pre-labeled fraudulent cases.

## Impact of the Solution

Real-time fraud detection has led to a significant reduction in credit card and online transaction fraud.



# Marketing



## Problem Being Solved

ML is used in personalized product recommendations on platforms like Amazon or Netflix to suggest products or content based on a user's previous behavior.

## Types of Machine Learning Used

Reinforcement Learning: The system learns from user interactions and adapts over time to improve the accuracy of recommendations.

## Impact of the Solution

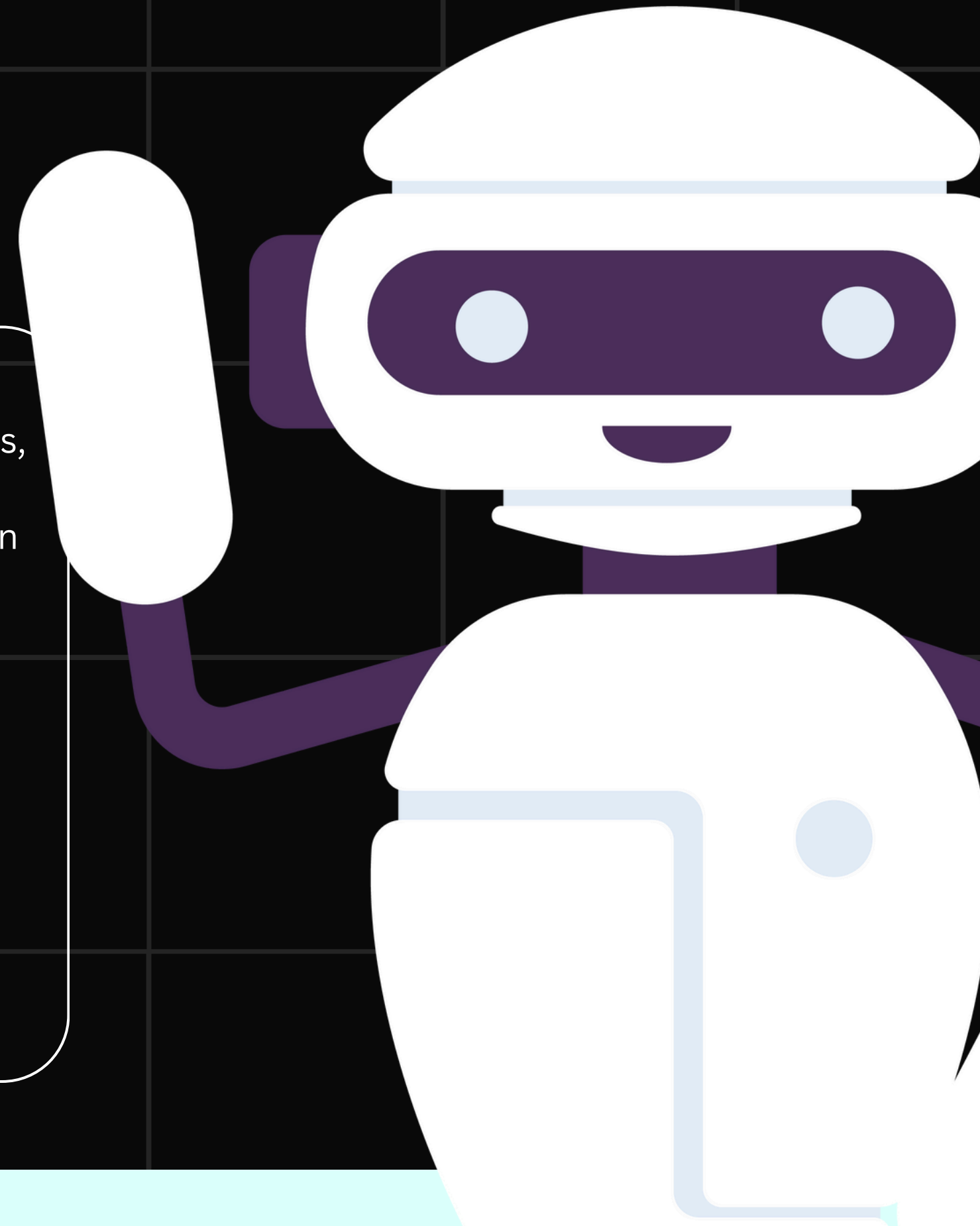
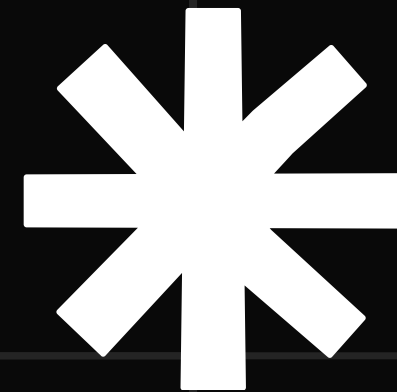
Enhanced customer satisfaction and engagement, leading to increased sales and viewership.

# Conclusion

Machine learning is a powerful tool that is being applied across various domains, from healthcare to finance and marketing.

As ML continues to evolve, its impact on industries will only grow, offering new possibilities for innovation and problem-solving.

Its ability to automate complex tasks, provide real-time analysis, and improve decision-making makes it an invaluable resource in numerous industries.





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Thankyou

