

## Top 3 Examples of AI/ML Development

### 1. Fraud Detection in Financial Services

AI and machine learning are widely used in the banking and financial sector to detect fraudulent transactions in near real time. Companies like American Express leverage advanced algorithms to analyze vast amounts of transaction data, identifying suspicious patterns and preventing losses from fraud. These systems continuously learn and adapt to new types of fraud, making them highly effective in safeguarding financial transactions<sup>[1] [2]</sup>.

### 2. Medical Imaging and Diagnostics

In healthcare, AI/ML models are transforming diagnostics, especially in medical imaging. For example, Infervision uses deep learning to assist radiologists in China with reviewing CT scans for early signs of lung cancer. By automating the analysis of medical images, AI helps improve diagnostic accuracy and efficiency, addressing shortages of skilled professionals and reducing human error<sup>[1] [3]</sup>.

### 3. Recommendation Systems

Recommendation engines are a cornerstone of AI/ML in consumer technology. Platforms like Netflix, Amazon, and YouTube use machine learning to analyze user behavior and preferences, providing personalized content and product suggestions. These systems process massive datasets to predict what users are likely to enjoy or purchase next, significantly enhancing user engagement and satisfaction<sup>[4] [5]</sup>.

These examples represent some of the most impactful and widely adopted applications of AI and machine learning across industries, driving efficiency, accuracy, and personalization at scale.



1. <https://bernardmarr.com/27-incredible-examples-of-ai-and-machine-learning-in-practice/>
2. <https://ginimachine.com/blog/fields-that-use-artificial-intelligence/>
3. <https://www.tierpoint.com/blog/ai-ml-use-cases/>
4. <https://www.coursera.org/articles/machine-learning-examples>
5. <https://builtin.com/artificial-intelligence/examples-ai-in-industry>