

Machine Learning in Agri and Food Tech

Machine learning is everywhere throughout the whole growing and harvesting cycle. It begins with a seed being planted in the soil — from the soil preparation, seeds breeding and water feed measurement — and it ends when robots pick up the harvest determining the ripeness with the help of computer vision. Machine learning algorithms can also be used to differentiate between weeds and crops. GPS-enabled automated tractors can be used for efficient ploughing, tilling and planting. It has emerged together with big data technologies and high performance computing to create new opportunities to unravel, quantify, and understand data intensive processes in agricultural operational environments.

In food industries, there are many areas where machine learning is used. Machine Learning solutions offer many possibilities to optimize and automate processes, save money, and reduce human error for many industries. AI and ML can benefit restaurants, bars, and cafe businesses as well as in food manufacturing. It also helps in food delivery and goods tracking at every step, making it safer and providing transparency. Also, it makes pricing and inventory forecasts, which prevents extra costs.

The areas where machine learning is used in food industries are:

1. Supply chain optimization – less waste and more transparency
2. Sorting food: optical sorting solutions
3. Predictive maintenance, remote monitoring, and condition monitoring
4. Analytical solutions for a better customer experience
5. Food-selling sites and applications
6. Revenue Prediction Using Machine Learning

World- Top 10 world best known Agri Tech companies using Machine Learning

1. Beriqa

Their analysis enables decision making in precision agriculture by identifying parameters such as underperforming fields, nutrient deficiency, pest damage, and missed fertilizer stripes.

url: <https://www.beriqa.com/>

CEO -

2. AbuErdan

Livestock Monitoring

url: <https://abuerdan.com/>

CEO - Islam Khalil

3. Klimazone

Climate Recipes

url: <https://klimazone.io/>

CEO - Frederik Bussler

4. Bilberry

Intelligent Spot Spraying System

url: <https://bilberry.io/>

CEO - Guillaume Jourdain

5. AgroScout

Image-Based Anomaly Detection

url: <https://agro-scout.com/>

CEO - Simcha Shore