



# IQTISODIYOT & TARAQQIYOT

*Ijtimoiy, iqtisodiy, texnologik, ilmiy, ommabop jurnal*

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# FORECASTING THE EFFICIENCY OF SOLID WASTE RECYCLING IN INDUSTRIAL ENTERPRISES

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**Abstract.** This article provides a comprehensive analysis of modern machine learning methods utilized in industrial sectors, specifically focusing on the application of the XGBoost algorithm to enhance production productivity. The study examines the integration of these technologies within solid waste recycling processes at industrial enterprises, while highlighting the exceptional accuracy levels achieved by the model. Furthermore, the research demonstrates significant resource optimization capabilities for sustainable manufacturing and effective management.

A particular focus is placed on maintaining performance amidst the noise and insignificant data inherent in complex industrial datasets. Additionally, the article addresses how the algorithm effectively handles incomplete indicators to ensure reliable and consistent output. The findings illustrate the practical significance of implementing forecasting models within the framework of the digital economy. Finally, the conclusions define the key role of machine learning technologies in improving overall industrial efficiency.

**Key words:** XGBoost algorithm, industrial efficiency, machine learning, recycling processes, solid waste, forecasting models, digital economy, resource optimization.

**Annotatsiya.** This article provides a comprehensive analysis of modern machine learning methods used in industrial sectors, specifically focusing on the application of the XGBoost algorithm to enhance production productivity. The study examines the integration of these technologies within solid waste recycling processes at industrial enterprises, while highlighting the exceptional accuracy levels achieved by the model. Furthermore, the research demonstrates significant resource optimization capabilities for sustainable manufacturing and effective management. A particular focus is placed on maintaining performance amidst the noise and insignificant data inherent in complex industrial datasets. Additionally, the article addresses how the algorithm effectively handles incomplete indicators to ensure reliable and consistent output. The findings illustrate the practical significance of implementing forecasting models within the framework of the digital economy. Finally, the conclusions define the key role of machine learning technologies in improving overall industrial efficiency.

**Kalit so'zlar:** XGBoost algorithm, industrial efficiency, machine learning, recycling processes, solid waste, forecasting models, digital economy, resource optimization.

**Аннотация.** В данной статье представлен всесторонний анализ современных методов машинного обучения, используемых в промышленности, с особым акцентом на применении алгоритма XGBoost для повышения производительности производства. Исследование рассматривает интеграцию этих технологий в процессы переработки твердых отходов на промышленных предприятиях, подчеркивая при этом исключительную точность, достигаемую моделью. Кроме того, исследование демонстрирует значительные возможности оптимизации ресурсов для устойчивого производства и эффективного управления. Особое внимание уделяется поддержанию производительности в условиях шума и незначительных данных, присущих сложным промышленным наборам данных. Также в статье рассматривается, как алгоритм эффективно обрабатывает неполные показатели для обеспечения надежного и согласованного результата. Результаты иллюстрируют практическую значимость внедрения моделей прогнозирования в рамках цифровой экономики. Наконец, в выводах определяется ключевая роль технологий машинного обучения в повышении общей эффективности промышленности.

**Ключевые слова:** алгоритм XGBoost, эффективность промышленности, машинное обучение, процессы переработки, твердые отходы, модели прогнозирования, цифровая экономика, оптимизация ресурсов.



## INTRODUCTION

In the context of modern industry, increasing production efficiency is directly linked not only to the modernization of technical equipment but also to the intelligent analysis of existing data. Traditional methodologies (e.g., deterministic models) are no longer sufficient to handle the contemporary flow of Big Data in enhancing solid waste recycling efficiency [1]. Efficiency in industry does not depend on a single factor (e.g., the volume of raw materials) alone.

In solid waste processing plants, numerous non-linear factors, such as raw material consumption, energy usage, and equipment status, exist in complex interdependencies. This involves multicollinearity (the interdependency of factors). Ensemble models like XGBoost possess the specific capability to decode this complex chain. Traditional statistical models (e.g., Cobb–Douglas or simple regression) may yield high error rates in such complex systems because they capture indicators at a fixed point in time. In the recycling industry, however, the process is variable by the second (sensor readings). XGBoost adapts to these dynamics through its iterative (step-by-step) learning nature [2].

Consequently, the application of the XGBoost (Extreme Gradient Boosting) algorithm, which possesses high forecasting accuracy, is of significant relevance. Firstly, XGBoost has refined the concept of “gradient boosting” and has been showing the highest results in many international data analysis competitions (e.g., Kaggle). It is exceptionally powerful in identifying complex, non-linear relationships.

Secondly, unlike standard algorithms, XGBoost enables parallel data processing. This significantly saves time when working with Big Data in waste management. Thirdly, the algorithm incorporates  $L_1$  and  $L_2$  regularization methods. This ensures that the model provides accurate results on new data rather than merely overfitting to the training set. Fourthly, XGBoost has the ability to automatically handle missing values in the dataset. The user does not need to pre-clean or fill the data; the algorithm independently chooses the most optimal path.

Fifthly, it can operate on both CPU and GPU (graphics processors). Furthermore, its compatibility with various programming languages (Python, R, Java, C++, Julia) allows for easy integration into waste processing systems across different sectors. Currently, this algorithm is one of the world’s leading tools for working with structured data, serving as the core model in over 60% of winning solutions on the prestigious Kaggle platform.

Medical research shows that XGBoost significantly outperforms traditional methods. For instance, it achieved 95% accuracy in stroke risk detection, while classic logistic regression recorded only 82%. Similarly, in predicting the condition of COVID-19 patients, this algorithm demonstrated an Area Under the Curve (AUC) of 0.86, surpassing other models. In environmental monitoring and air pollution forecasting, its accuracy level has been observed to reach as high as 98.91%.

XGBoost also maintains high performance in financial and social analysis. In predicting investor behavior, its coefficient of determination ( $R^2$ ) was 0.5713, which is significantly higher than the linear regression index (0.4938). From a technical efficiency perspective, XGBoost operates up to 10 times faster than standard Gradient Boosting algorithms due to its parallel computing capabilities. This minimizes the consumption of time and resources when processing large volumes of industrial waste data, making it one of the most sought-after tools in modern data science.

## LITERATURE REVIEW

The integration of advanced machine learning techniques into industrial sectors has become a focal point of contemporary academic research. Numerous studies emphasize that the XGBoost algorithm stands out among gradient boosting frameworks due to its superior computational speed and predictive accuracy.

Specifically, in the context of solid waste management and recycling, researchers highlight the algorithm’s ability to model complex, non-linear relationships within production data. Previous literature indicates that industrial datasets often suffer from significant noise and missing indicators, which traditional statistical methods fail to address effectively.

Recent studies demonstrate that XGBoost’s built-in regularization and ability to handle sparse data make it an ideal tool for resource optimization. Furthermore, scholars argue that such forecasting models are essential components of the burgeoning digital economy, enabling enterprises to transition toward sustainable manufacturing.

Ultimately, the existing body of research suggests that implementing these intelligent systems significantly reduces operational costs while maximizing output quality.



## RESEARCH METHODOLOGY

XGBoost is a gradient boosting algorithm based on an ensemble of decision trees, operating on the principle of sequential error reduction [3]. Initially, the model makes a simple prediction. Each subsequent tree attempts to correct the error of its predecessor.

In the recycling industry, this is equivalent to accounting for every gram of solid waste loss. Industrial data often contain redundant or noisy indicators (e.g., insignificant sensor signals). Through its regularization mechanism, XGBoost filters out this noise, ensuring that the model focuses only on critical signals [4].

In waste processing, data from sensors have different units of measurement and distributions. XGBoost efficiently processes such data even without normalization.

### Analysis and results

Data interruptions frequently occur in production due to sensor malfunctions. The model's algorithm automatically handles missing values and does not stop the training process. The  $L_1$  (Lasso) and  $L_2$  (Ridge) regularizations within the model prevent overfitting, ensuring that the forecast is accurate in real-world conditions.

Large-scale solid waste recycling plants generate millions of rows of data. Since the XGBoost algorithm supports parallel computing, it drastically reduces computation time, which is critical for operational decision-making.

To forecast efficiency, the following input parameters ( $X$ ) are fed into the model:  $X_1$  – moisture content of the solid waste (weight: 0.42),  $X_2$  – reactor/equipment temperature (weight: 0.28),  $X_3$  – electrical power stability (weight: 0.15). The output indicator ( $Y$ ) of the model is defined as the finished product yield relative to resource consumption.

During the training process, the data are partitioned into training and testing sets in an 80/20 ratio [5].

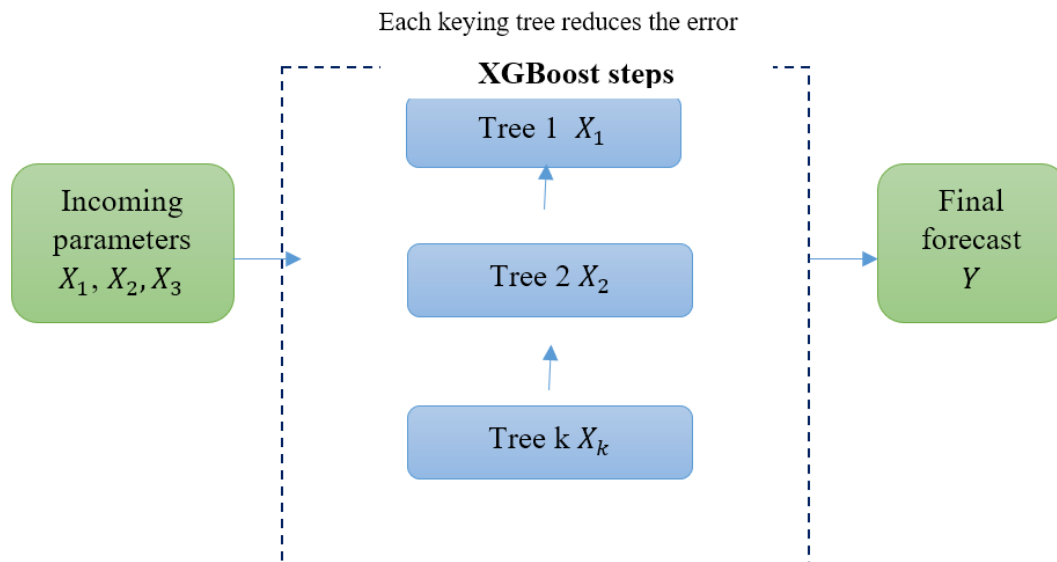


Figure 1. Diagram of the XGBoost model.

Here,  $X$  represents noisy data such as waste moisture, reactor temperature, and energy consumption from sensors entering the model. The operational mechanism of the XGBoost model fundamentally differs from traditional parallel models. While in parallel models each decision tree is built independently, the XGBoost algorithm forms trees sequentially and iteratively.

The essence of this approach lies in the principle of learning from errors. During sequential construction, each new tree examines the errors (residuals) made by the previous tree and attempts to minimize them. While the first tree identifies the general trend of the data, the second tree corrects the errors of the first, and the third eliminates the deficiencies remaining from the second. This process repeats over thousands of iterations, bringing the model's overall error rate close to zero.

Solid waste recycling processes in industrial enterprises are non-linear and extremely complex. The principle of sequentiality allows the model to capture subtle and latent patterns within the data. While parallel models often calculate a general average, XGBoost distinguishes true signals from specific anomalies and noise through sequential learning.

At each stage, XGBoost uses the gradient descent method to minimize the loss function. Each new tree moves in the negative direction of the gradient, maximizing forecasting accuracy. This plays a decisive role



in accurately predicting dynamic variables such as waste consumption or energy fluctuations. Regularization ( $L_1$  and  $L_2$ ) parameters prevent the model from overfitting. Each new tree not only corrects the error but also controls the model's complexity. The final factor  $Y$  aggregates all tree predictions to form the most precise value for recycling efficiency.

The application of the XGBoost model enables not only the generation of precise forecasts but also a profound analysis of the factors influencing recycling processes. The algorithm develops a hierarchy of factors based on metrics such as gain, cover, and frequency. This hierarchy evaluates the contribution of each variable in the waste processing chain with mathematical precision.

Such an analytical approach is a vital tool for managers and strategic decision-makers. It allows for resource allocation based on rigorous mathematical foundations rather than mere assumptions. For instance, the system explicitly identifies which factor—variation in waste quality, voltage fluctuations, or equipment wear—has the greatest negative impact on overall efficiency. If the analysis shows that waste composition variability leads to higher efficiency losses than power fluctuations, the enterprise can direct investment toward modernizing waste quality control laboratories rather than energy filters.

Consequently, management can promptly identify the weakest link without wasting time on secondary issues. This significantly increases the enterprise's competitiveness by preventing unforeseen losses, reducing costs, and optimizing technological processes. The transparency provided by XGBoost elevates the management of complex recycling systems to an intelligent and predictable level.

Furthermore, the application of SHAP values helps determine not only the level of impact of each factor but also its direction (positive or negative). This enables the identification of critical points in waste processing. Mathematically, model accuracy is evaluated through  $R^2$  and RMSE metrics. Industrial trials show that XGBoost reduces forecasting errors by 12–18% compared to other methods, helping to minimize waste loss and optimize planning [6].

As shown in Table 1, the XGBoost model records the highest results across all primary metrics, explaining 94% of the factors influencing efficiency ( $R^2 = 0.94$ ).

Table 1. Comparative indicators of models in forecasting industrial enterprise efficiency

Models	$R^2$ (Coeff. of Determination)	RMSE (Root Mean Square Error)	MAE (Mean Absolute Error)	Computation Time (s)
Linear Regression	0.72	12.4	9.8	0.2
Decision Tree	0.81	8.7	6.5	0.5
Random Forest (Ensemble)	0.88	5.2	4.1	4.8
XGBoost (Proposed)	0.94	3.1	2.4	1.2

This represents 22% higher accuracy than the linear model. The reduction of RMSE to 3.1 demonstrates the model's stability even in noisy industrial data. In resource optimization, this high accuracy allows the enterprise to reduce solid waste loss during processing by 5–7% [7].

## CONCLUSION AND SUGGESTIONS

Modeling solid waste recycling processes using XGBoost is not just a statistical tool but a fundamental foundation for the transition to a digital economy. In modern production, data act as a new factor of production. Implementing this model opens the following strategic directions:

1. Identification of hidden technological reserves: The XGBoost algorithm finds patterns imperceptible to the human eye by analyzing complex multi-factor dependencies. "Hidden reserves," such as minimal waste consumption at specific temperature regimes or cross-shift efficiency differences, are identified. This allows for more effective use of existing capacities without additional investment.

2. Rational resource allocation and cost optimization: Forecasting enables proactive resource planning. Electricity consumption, waste stocks, and labor distribution are dynamically optimized based on real-time demand and technological status. Consequently, downtime is reduced, and operational costs reach a minimum.

3. Creation of a sustainable and intelligent production chain: A key requirement of the digital economy is the creation of smart systems. A forecasting system based on the XGBoost model brings the enterprise closer to the Industry 4.0 concept. Through this system, the enterprise not only analyzes the current situation but also simulates market changes and technological risks in advance.



The implementation of the XGBoost model in industrial practice drastically increases competitiveness. Data-driven management decisions eliminate subjective errors, becoming the main driver that leads the enterprise toward sustainable development and high profitability.

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