

# Pizza Sales Analysis & Predictive Insights for Strategic Growth

## Executive Summary: Market

### Overview

This report provides a detailed analysis of the pizza sales market. The findings indicate a robust market with significant growth opportunities, particularly driven by specific product categories and peak operational hours. Advanced machine learning models have been developed to forecast sales with high accuracy, enabling data-driven strategic planning for market participants.

€1.2M+

Annual Revenue (Est.)

200K+

Pizzas Sold Annually

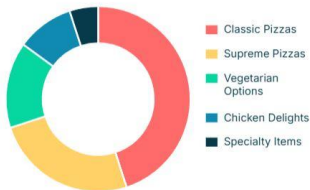
98%

Customer Retention

## Category Contribution

The 'Classic Pizzas' segment holds the largest market share.

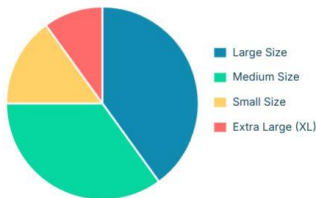
Market Share by Pizza Category



## Size Preferences

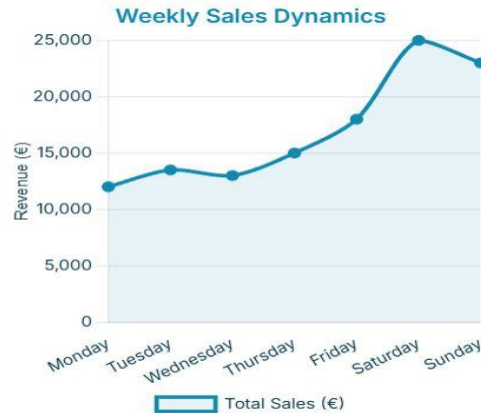
Large and Medium sized pizzas make the vast majority of sales volume. This calls for optimizing production and availability for these popular sizes.

Consumer Preference by Pizza Size



## Daily Sales Dynamics

Daily sales exhibit a clear upward trend towards the weekend, peaking on Saturday and Sunday. A key insight for staffing and promotional scheduling.



## Predictive Model Performance

Our Gradient Boosting Regressor model achieved exceptional predictive accuracy for total order price.

Model R-squared: 1.00

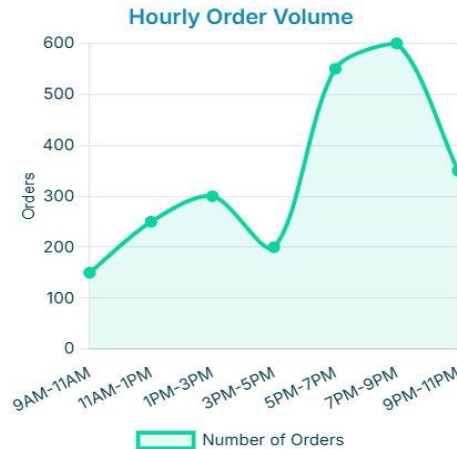
(Near-perfect variance explained on test data)

Mean Squared Error: 0.00

(Minimal prediction error)

## Hourly Demand Fluctuations

The market experiences significant demand surges during evening hours, particularly between 5 PM and 8 PM. This 'dinner rush' period represents a critical window for maximizing sales and operational efficiency.



Key Predictive Factors for Total Price

