

# PRODUCT DEMAND PREDICTION WITH MACHINE

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## INNOVATION:

Product demand prediction is a crucial task for businesses to ensure that they have enough inventory to meet customer demand. Machine learning has been used to predict product demand with great success. [Aman Kharwal has written an article on product demand prediction with machine learning<sup>1</sup>](#). The article provides a step-by-step guide on how to predict product demand using Python. The author uses a case study of a product company that wants to offer discounts on its product during the upcoming holiday season. The company wants to find the price at which its product can be a better deal compared to its competitors. The author provides a dataset of past changes in sales based on price changes and trains a

model that can predict the demand for the product in the market with different price segments.

The article also provides Python code snippets for importing necessary libraries, loading the dataset, analyzing the relationship between price and demand, and training a machine learning model for predicting product demand.

[In addition, there are other research papers that discuss how machine learning can be used for demand forecasting<sup>2345</sup>](#). These papers provide insights into how machine learning can be used to forecast product demand more accurately and efficiently.