

Research on artificial neural networks and their application in forecasting the Consumer Price Index (CPI) in Vietnam

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Abstract: This topic focuses on researching the application of artificial neural networks (ANN) to forecast the Consumer Price Index (CPI) in Vietnam. The reason for choosing this topic is the need to improve accuracy in macroeconomic forecasting, thereby supporting effective policy decisions. The objective of the study is to build an ANN system capable of learning and predicting CPI trends based on historical data. - Method: Combining theoretical research with empirical analysis. Expected results include validating the model's effectiveness, providing a reliable forecasting tool for the government and businesses, and promoting the application of artificial intelligence technology in the economic field.

Keywords: Artificial neural network, CPI forecasting, Macroeconomics, Economic policy, Historical data