

I. INTRODUCTION

Food is one of the basic needs that human beings must satisfy in order to survive. Not only that, but food also determines the feasibility of human life and prevents people from starving [1]. Therefore, the determination of food prices is important. Unstable food prices will affect the increase of inflation, which will also increase the cost of living for people. In addition, unstable prices will also cause unrest so that people will want to have different opinions regarding the situation [2] [3].

Many platforms can be used to express opinions, one of which is social media. X, formerly known as Twitter, is one of the popular social media used by people, especially young people, to express their opinions [7], [8]. In X, various topics such as politics, social issues, or users' life experiences can be discussed. This makes X an effective source for research, especially research related to sentiment classification [19], [10].

Sentiment classification is used to get a better understanding of how people feel about food prices by categorizing them into classes. Many methods can be used for research related to sentiment classification such as Naïve Bayes, BERT (Bidirectional Encoder Representations from Transformer), SVM (Support Vector Machine), Logistic Regression, and other methods. This research was carried out using RoBERTa. RoBERTa was chosen because it has a pre trained model that has been trained with large data, so it has good word understanding. In addition, RoBERTa has been shown to be superior to other transformational and deep learning models in detecting fake reviews [14]. For example, RoBERTa performs about 2-20% better than BERT when performing NLP (natural language processing) tasks [5]. This research explores what is still rare or never done before by implementing the RoBERTa method for sentiment classification on the topic of food prices. It is important to know people's opinions about the current food prices because food prices have a big impact on people's lives.