

AIPI 510 Final Project Datasheets

Team #9

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Dataset - Copper

Motivation

This data set is collected to be used as a predictor of a food price index prediction model. The food price index is calculated by the weighted average of the price of corn, soybean and wheat. It is believed that there exists noticeable relation between the price index and the price of copper.

Composition

The dataset consists of two columns. The first one is the date and the second one is the price of copper at that date. The data is collected from 1959/7/2 to 2021/11/29.

Collection Process

The data was acquired from a third party, macrotrend website, where the dataset can be extracted as csv file directly. This website is open to public and has no personal identifiable information so it doesn't need to consider the ethical issue. The link is [Copper Prices - 45 Year Historical Chart | MacroTrends](#).

Pre-processing

The original data collected from website contains a couple of lines of header, which is removed before using.

Uses

Some research paper has used this dataset to do their research. This dataset can also be used to analyze the price trend of copper itself or prediction of other commodity's price. The dataset should not be treated as financial or investment advice or advocate the purchase or sale of any security or investment.

Distribution

The dataset was distributed in an open-to-public website. The term of use is specified by the website and the services can be only accessed manually by request and not programmatically by macro or other automated means.

Maintenance

MacroTrend is supporting/hosting/maintaining this dataset. The data will be updated by date. Certain information and data provided in connection with these Services may be delayed as specified by financial exchanges or Information Providers. MacroTrends LLC and the Information Providers furnish the information available in connection with these Services without responsibility for accuracy and user agree that errors or omissions contained in such information shall not be made the basis for any claim, demand or cause of action against MacroTrends LLC or any Information Provider. The contact is given by info@macroTrends.net.

Datasheet-Wheat

Motivation

The dataset was created as a part of elements to predict the cereal price. The cereal price index will be calculated by the weighted average of the price of corn, soybean, and wheat.

Composition

The dataset is composed of the date and price from 1959 to 2021. There are some missing data in the dataset.

Collection Process

The data was acquired from a third party, macrotrend website, where the dataset can be extracted as csv file directly. This website is open to public, so it doesn't need to consider the ethical issue. The link is [Wheat Prices - 40 Year Historical Chart | MacroTrends](#).

Pre-processing

The original data collected from website contains a couple of lines of header, which is removed before using.

Uses

Some research paper has used this dataset to do their research. This dataset can also been used to analysis the price trend of wheat itself or prediction of other commodity's price.

Distribution

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Maintenance

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Datasheet-M2

Motivation

As a factor that affects the food index, M2 is a measure of money supply. Therefore, this dataset was selected as one of the features to represent changes in the world economy.

Composition

This dataset contains data from Federal Reserve Economic Data and is composed of observation_data and data of money supply. The frequency of this dataset is weekly, ending Monday. The range is from 1980-11-03 to 2021-2-01. There are no missing data in the dataset.

Collection Process

The data was collected from a third party named Economic Research, where the dataset can be extracted as a csv file directly from this website. This website is open to the public, which means we don't need to consider data privacy. The link is [M2 source](#).

Pre-processing

The original data collected from website contains a couple of lines of header, which is removed before using.

Uses

Some research papers have used this dataset to do their research. As federal data, it is often used as a basis for various business analysis.

Distribution

The dataset was distributed on an open-to-public website. However, data can only be used for personal, non-commercial use. Users can't do any data mining, scraping or extraction of FRED data. Can't remove or change the FRED logo on the chart.

Maintenance

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