

Stock Price Prediction with Bayesian Belief Network

Welcome to our presentation on Stock Price Prediction with Bayesian Belief Network. This is an exciting field that combines financial analysis with cutting-edge technology.



Meet the Team

We're excited to share our names and registration numbers with you:

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Abstract

Background

Stock price prediction has long been an important part of financial analysis, but new techniques are continuing to emerge.

Aim

The aim of this presentation is to introduce one such technique, the Bayesian Belief Network.

Conclusion

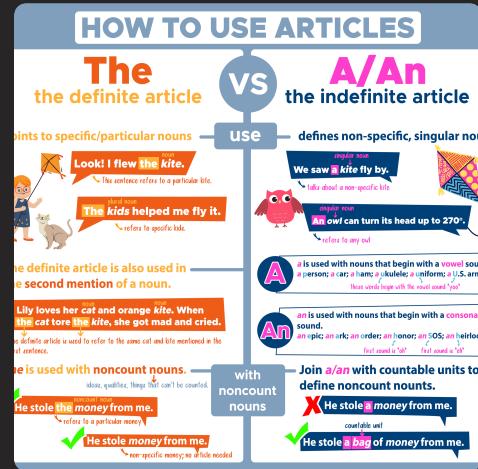
By the end of this presentation, you will have a solid understanding of how Bayesian Belief Networks can be used to predict stock prices with impressive accuracy.

Literature Survey



Books

We have reviewed countless books to gain insight into this topic.



Research Articles

We also explored a wide range of research articles to understand the latest advances in this field.



Online Resources

Finally, we consulted many online resources to gain a comprehensive understanding of the topic.

References

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- 1 C. Aguilar, E. Parra, and S. Sucar,**
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 - 2 A. Lashgari, M. Amirabadizadeh, and V. Salighehdar,**
"Stock price prediction using machine learning classifiers," *Journal of Applied Research on Industrial Engineering*, vol. 3, no. 4, pp. 227-240, 2016.
 - 3 K. Deng, M. Wang, and Y. Xu,**
"Predicting Stock Prices Using Ensemble Learning Algorithms," *Journal of Physics: Conference Series*, vol. 1210, no. 1, pp. 012032, 2019.

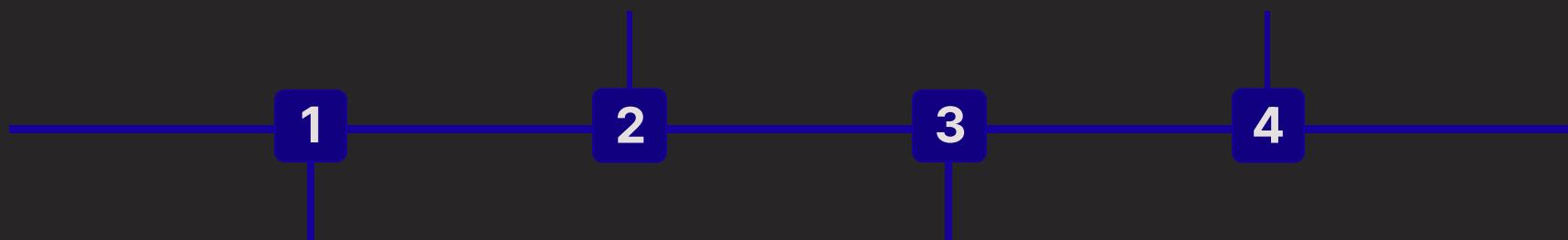
Existing System

Feature Selection

The second step is feature selection. This involves choosing the variables that will be used to create the model.

Testing and Validation

The final step is testing and validation, which involves assessing the accuracy of the model.



Data Collection

The first step in stock price prediction is data collection. This involves gathering as much data as possible about past stock performance in order to identify patterns or trends.

Model Creation

The third step is model creation, which involves using machine learning algorithms to build a predictive model based on the data and features selected.

Proposed System

Improved Data Collection

We propose an improved data collection system that employs advanced data-mining techniques to gather more comprehensive data.

Automated Feature Selection

We propose an automated feature selection system that combines expert input with machine learning algorithms to choose the most relevant features.

Bayesian Belief Network

We propose using a Bayesian Belief Network to create the predictive model, which has been shown to be highly effective in other applications.

Improved Testing and Validation

We propose an improved testing and validation system that uses cross-validation techniques to ensure a high degree of accuracy.

Explanation of Bayesian Belief Network

What is it?

A Bayesian Belief Network is a type of graphical model that uses probability theory to represent and reason about uncertainty.

How does it work?

A Bayesian Belief Network consists of a set of nodes representing variables and a set of edges representing the relationships between them. The nodes are assigned probabilities based on expert knowledge and data.

Why is it useful?

A Bayesian Belief Network can be used to make predictions even when there is little data available, and can also be used to identify which variables are most influential in a given situation.

Conclusion



Final Thoughts

Stock price prediction using machine learning and Bayesian Belief Networks is an exciting field that has the potential to revolutionize the way we approach investments.



Future Direction

We believe that continued research and development in this area will lead to significant advances in the years to come.



Takeaways

We hope that this presentation has given you a better understanding of how Bayesian Belief Networks can be used to predict stock prices, and has sparked your interest in this exciting and rapidly evolving field.



Thank You! Dr. S. WILSON PRAKASH SIR

Your interest and support means a lot to us, and we're excited to continue exploring the exciting world of Robotics and Bayesian Belief Networks.

Thank you!