An AI-Driven Framework for Geopolitical Risk Prediction and Analysis

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Abstract

Geopolitical actions like war, economic sanctions and diplomatic crises considerably influence the world stability and decision making in a world that seems to be more interconnected than ever before. Conventional ways of evaluating geopolitical risk tend to be manual and subjective in nature, which might not be able to keep up with the increasing amount of data associated with the world. This paper describes an AI-based predictive geopolitical risk model that can support risk evaluation in real-time and using data.

Statistics and historical data on geopolitical issues gathered via news articles, economic data, and regional event data are also considered real-time and historical information that is integrated with machine learning techniques and suggested as a system. To identify meaningful patterns in unstructured text, Natural Language Processing (NLP) techniques will be applied, and predictive models will be applied to determine the level of risk that is linked to a particular area or incident. The system also includes data visualization dashboards to show the risk scores, trends and comparisons in an easy-to-use format.

The experimental analysis proves that the suggested framework would be useful in identifying the new patterns of risks and give valuable early warning signals to the analysts, policy makers and organizations. The system follows the reduction of manual interpretation induced by the analysis of large-scale geopolitical data and enhances the level of consistency and responsiveness through analysis automation. The article can emphasize the possibilities of artificial intelligence to serve as a decision support system in the geopolitical risk assessment and add to the emerging implementation of AI-based analytical systems in the strategy and society.

Keywords

Geopolitical risk, artificial intelligence, machine learning, predictive analytics, decision support systems.