Clarivate   English ⌄   ⊞ Products

Web of Science™   Smart Search   ⊹ Research Assistant ⓘ   ⊙ Satyadhar Joshi ⌄

≡‹
MENU

⊛

Research Commons

Leveraging prompt engineering to enhance financial market integrity and risk management

			Citation Network
By	Satyadhar Joshi (Satyadhar Joshi)		In All Databases
Source	World Journal of Advanced Research and Reviews		**6**
	Volume: 25 Issue: 1 Page: 1775-1785		Citations
	DOI: 10.30574/wjarr.2025.25.1.0279		0
Published	Jan 30 2025		Cited References
Early Access	Jan 2025		
Indexed	2025-07-11		**This record is from:**
Document Type	Article		Research Commons

Citation Network

In All Databases

6
Citations

0
Cited References

This record is from:

Research Commons

Suggest a correction
If you would like to improve the quality of the data in this record, please **Suggest a correction**

Abstract

This paper presents a comprehensive investigation into the role of prompt engineering in optimizing the effectiveness of large language models (LLMs) like ChatGPT-4 and Google Gemini for financial market integrity and risk management. As AI tools are increasingly integrated into financial services, including credit risk analysis, market risk evaluation, and financial modeling, prompt engineering has become crucial for improving the relevance, accuracy, and contextual alignment of AI-generated outputs. This study evaluates the impact of various prompt configurations in enhancing financial decision-making. Through a series of experiments, the paper compares the performance of ChatGPT-4 and Google Gemini (versions 1.5 and 2.0) in generating actionable insights for credit and market risk analysis. The results reveal that ChatGPT-4 outperforms Google Gemini by over 30% in generating accurate financial insights. Additionally, ChatGPT-4 Version 4 is found to be 20% more effective than Version 3 in risk analysis tasks, particularly in aligning with regulatory frameworks and financial data. These improvements highlight the significant role of prompt engineering in enhancing the precision of financial models. Furthermore, the study explores the reduction of error rates through optimized prompt strategies. In particular, prompt engineering reduces error rates by approximately 20% when assessing complex financial queries.

+ **See more data fields**

Legal Center   Training Portal   Cookie Policy   Accessibility   Follow Us

Privacy   Product   Data   Help

Statement   Support   Correction   Terms of

Copyright   Newsletter   Use

Notice