

# Unlocking Financial Wisdom: Building Knowledge Graphs from Investopedia

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Imagine a world where financial knowledge is seamlessly connected, making complex concepts easy to grasp. This paper presents an innovative approach to organizing financial information by building knowledge graphs from Investopedia's key takeaways. By capturing and connecting crucial insights, we transform fragmented information into a coherent network of financial wisdom.

We begin by scraping key takeaways from Investopedia, focusing on the most concise and essential points. These takeaways are then analyzed to identify and map connections between different financial concepts, creating a dynamic knowledge graph. This graph provides an intuitive way to navigate through financial information, uncovering hidden relationships and enhancing understanding. Our research details the technical steps involved in scraping, processing, and constructing the knowledge graph, addressing challenges in data extraction and analysis.

Through real-world examples, we demonstrate how our knowledge graph reveals connections, supports sophisticated queries, and provides a deeper understanding of financial topics. By organizing financial data into an interconnected network, users can explore how different concepts relate to each other, leading to new insights and a clearer understanding of complex topics. This study aims to revolutionize the way financial data is accessed and used, offering a new level of clarity and insight for anyone navigating the financial landscape.

## Bio

At JP Morgan, I have spent the past three years transforming complex financial data into actionable insights as a software developer. My focus on mortgage-backed securities allows me to merge my passion for data with the dynamic world of finance, crafting innovative solutions that enhance operational efficiency and accuracy.

My journey at JP Morgan is marked by my ability to navigate and manage intricate datasets, developing applications that streamline the processing and analysis of mortgage-backed

securities. This role places me at the intersection of technology and finance, where my contributions directly impact the precision and reliability of our financial operations.

Fueled by a relentless curiosity, I dive deep into the realms of data science and software development, always eager to uncover new technologies and methodologies. Whether it's experimenting with cutting-edge algorithms or exploring the latest advancements in AI and machine learning, I am driven by the thrill of discovery and the potential to solve real-world problems through data. My commitment to staying at the forefront of industry trends ensures that I bring the most innovative solutions to my team.

Outside of work, I find joy in painting and candle making, activities that allow me to express my creativity and unwind. I am also a trained classical dancer, having performed across India during my upbringing. These experiences have not only honed my artistic skills but also given me the opportunity to explore diverse cultures and places, enriching my perspective on life.

Combining my technical prowess with a deep understanding of financial services, I aim to contribute significantly to the success of my team and the broader organization at JP Morgan. My mission is to harness the power of technology to drive innovation and shape the future of finance.