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Investigations into Financial Analytics for Supply Chain Management: Approaches and Resources

Dr. K. Baranidharan¹, Sathya Narayanan. V², Shrivatshan. R³,

Badrinathan P⁴, Rahul. B⁵,

¹Professor, Department of Management Studies ^{2,3,4,5}.First Year Management Studies Sri Sai Ram Institute of Technology, Chennai, India

Abstract: In this conceptual study emphasizing the crucial role of financial analytics in improving operations and enhancing decision-making, the paper analyzes its integration into supply chain management. It shows how data-driven insights are crucial for managing risks, predicting demand, and finding inefficiencies. firms may enhance their financial analytics capabilities and develop more successful supply chain strategies, according to the report, which also looks at different approaches and technologies that firms can use. Businesses can get a competitive edge in today's fast-paced market by boosting their agility and responsiveness through supply chain collaboration and the use of advanced analytics technologies.

Keywords: Business, Financial Analytics, Decision making, Technology, Supply chain

I. INTRODUCTION

Moving from suppliers to manufacturers to customers is the intricate web of operations that makes up the supply chain. The importance of efficient supply chain management is growing as companies fight for a piece of an increasingly worldwide market. An organization's bottom line is directly affected by the decisions it makes, hence financial analytics is crucial in this area. When it comes to supply chain operations, financial data can be analyzed using a variety of approaches that go under the umbrella term of financial analytics. Cost analysis, demand forecasting, inventory management, and supplier performance evaluation are all part of this. Businesses can improve their supply chain strategy as a whole and find areas for efficiency gains by using financial analytics.

Utilizing state-of-the-art data analytics tools and technologies is a key strategy for incorporating financial analytics into supply chain management. Organizations can use these technologies to gather, process, and analyze massive volumes of data from a variety of sources, such as external market data, customer relationship management (CRM) systems, and enterprise resource planning (ERP) systems. Using big data, businesses can better understand how their supply chains are doing and make decisions based on facts, which helps them reach their financial objectives. One more important strategy is to use predictive analytics, which look at past data to see what will happen next. Organizations can benefit from predictive analytics in the context of supply chain management by better able to foresee changes in demand, optimize inventory levels, and reduce risks related to disruptions in the supply chain. Businesses may strengthen their ability to withstand and adapt to a constantly shifting market by anticipating and resolving possible problems.

In addition, supply chain partners can work together more effectively with the use of financial analytics. Organizations can strengthen their connections with suppliers and consumers by sharing financial data and insights. This leads to better negotiation outcomes and higher trust. A more nimble and responsive company model is one outcome of this collaborative effort, which also fortifies the supply chain. In addition to these methods, there are a number of resources that businesses may use to improve their supply chain management financial analytics. Training programs, industry best practices, and specific software solutions are all part of this resource set that aims to help professionals make the most of financial analytics. Organizations can strengthen their analytical framework and achieve their supply chain goals by utilizing these resources.

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Objectives of the Study

- To identify the key approaches and methodologies for integrating financial analytics into SCM.
- To examine the tools and technologies available for financial analysis in the context of supply chains.
- To highlight the importance of collaboration among supply chain partners facilitated by financial analytics.

Scope of the Study

Financial analytics in the context of supply chain management are the focus of this research. Organizations can improve their supply chain operations by examining different financial analytics tools, methodology, and approaches. The research goes on to talk about how technology may help with financial analysis and how important it is for supply chain partners to work together. Although financial analytics are the main subject of the study, it does touch on the bigger picture of supply chain management techniques and how they affect company performance.

II. FINANCIAL ANALYTICS

Financial analytics is a crucial aspect of modern business strategy, enabling organizations to make informed decisions based on data-driven insights. This document explores the meaning and definition of financial analytics, its importance in the business landscape, the tools available for financial analysis, key features, and the various types of financial analytics. Financial analytics refers to the process of analyzing financial data to gain insights that can drive business decisions. It involves the use of statistical methods, financial modeling, and data visualization techniques to interpret financial information. The goal is to understand past performance, predict future trends, and optimize financial outcomes.

Importance

Financial Analytics: Roles, Tools, and Features





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The importance of financial analytics cannot be overstated. It plays a vital role in:

- **Informed Decision-Making**: By providing actionable insights, financial analytics helps businesses make strategic decisions that can enhance profitability and growth.
- **Risk Management**: It enables organizations to identify potential financial risks and develop strategies to mitigate them.
- **Performance Measurement**: Financial analytics allows companies to track their financial performance against benchmarks and industry standards.
- **Budgeting and Forecasting**: It aids in creating accurate budgets and forecasts, ensuring better resource allocation and financial planning.
- **Regulatory Compliance**: Financial analytics helps organizations comply with financial regulations by providing accurate reporting and transparency.

There are various tools available for financial analytics, each offering unique features and capabilities. Some popular tools include:

- **Microsoft Excel**: Widely used for financial modeling and analysis due to its flexibility and powerful functions.
- Tableau: A data visualization tool that helps in creating interactive dashboards for financial data analysis.
- **Power BI**: A business analytics tool by Microsoft that provides interactive visualizations and business intelligence capabilities.
- SAS: A software suite used for advanced analytics, business intelligence, and data management.
- **QuickBooks**: An accounting software that provides financial reporting and analytics for small to mediumsized businesses.

Key features of financial analytics tools include:

- Data Integration: Ability to integrate data from various sources for comprehensive analysis.
- Real-Time Analysis: Provides real-time insights into financial performance and trends.
- Predictive Analytics: Uses historical data to forecast future financial outcomes.
- Custom Reporting: Allows users to create customized reports tailored to specific business needs.
- Visualization: Offers graphical representations of data to facilitate understanding and interpretation.

III. SUPPLY CHAIN MANAGEMENT

A key component of contemporary company operations, Supply Chain Management (SCM) entails monitoring and controlling the movement of products, data, and money from the point of origin to the point of consumption by the end user. This document is an attempt to give a thorough introduction to SCM, covering all the bases: what it is, how it works, the features, types, and tools that are available. In order to provide goods and services to customers, a complex web of interdependent companies must be carefully orchestrated and managed. This process is known as supply chain management. It includes logistics management, sourcing, procurement, and conversion as well as their planning and execution. Channel partners, who may include clients, third-party service providers, intermediaries, or even suppliers, are also a part of supply chain management.





SCM is vital for several reasons:

- **Cost Efficiency**: Effective SCM helps reduce operational costs by optimizing inventory levels and improving logistics.
- **Customer Satisfaction**: By ensuring timely delivery and product availability, SCM enhances customer satisfaction and loyalty.
- **Competitive Advantage**: Companies with efficient supply chains can respond more swiftly to market changes, giving them a competitive edge.
- **Risk Management**: SCM helps identify potential risks in the supply chain and develop strategies to mitigate them.
- **Sustainability**: Modern SCM practices focus on sustainability, reducing waste, and promoting environmentally friendly practices.

Key features of SCM include:

• Integration: Seamless integration of various supply chain components, including suppliers, manufacturers, and distributors.

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- Visibility: Real-time visibility into the supply chain processes, allowing for better decision-making.
- Collaboration: Strong collaboration among all stakeholders to enhance efficiency and responsiveness.
- Flexibility: The ability to adapt to changes in demand, supply, and market conditions.
- Technology Utilization: Leveraging technology and data analytics to optimize supply chain operations.

SCM can be categorized into several types based on the nature of the supply chain:

- **Traditional Supply Chain**: Involves a linear flow of goods from suppliers to manufacturers to retailers and finally to consumers.
- Agile Supply Chain: Focuses on flexibility and responsiveness to changing market demands.
- Lean Supply Chain: Aims to minimize waste and maximize value by streamlining processes.
- Green Supply Chain: Incorporates environmentally friendly practices and sustainability into the supply chain.
- **Digital Supply Chain**: Utilizes digital technologies and data analytics to enhance supply chain efficiency and visibility.
- Several tools and technologies are employed in SCM to enhance efficiency and effectiveness:
- Enterprise Resource Planning (ERP): Integrates various business processes and functions into a single system.
- Supply Chain Management Software: Specialized software that helps manage supply chain activities, including inventory management and logistics.
- Customer Relationship Management (CRM): Manages interactions with customers to improve service and satisfaction.
- Data Analytics Tools: Analyze data to provide insights into supply chain performance and areas for improvement.
- Blockchain Technology: Enhances transparency and traceability in the supply chain.

IV. FINANCIAL ANALYTICS IN SUPPLY CHAIN MANAGEMENT

Financial analytics involves the systematic analysis of financial data to inform business decisions. In supply chain management, this can include evaluating costs, forecasting demand, and assessing the financial implications of supply chain strategies. Conducting investigations in this area allows organizations to identify trends, uncover inefficiencies, and make data-driven decisions that enhance profitability.

Importance of Investigations

- **Identifying Cost Drivers**: Investigations help in pinpointing the key factors that contribute to costs within the supply chain. Understanding these drivers enables organizations to implement targeted strategies for cost reduction.
- **Risk Management**: Financial analytics investigations can reveal potential risks in the supply chain, such as fluctuations in demand or supplier reliability. By identifying these risks early, companies can develop mitigation strategies to safeguard their operations.
- **Performance Measurement**: Conducting investigations allows organizations to measure the performance of their supply chain against financial metrics. This assessment is crucial for continuous improvement and aligning supply chain activities with overall business objectives.
- Enhancing Forecasting Accuracy: Investigations into historical financial data can improve forecasting models, leading to more accurate predictions of future demand and inventory needs. This accuracy is vital for maintaining optimal stock levels and minimizing waste.
- Strategic Decision-Making: Financial analytics investigations provide the insights needed for strategic decision-making. Whether it's deciding on supplier contracts or evaluating new market opportunities, informed decisions can significantly impact the bottom line.
- Approaches to Conducting Investigations
- Data Collection and Analysis: Gathering relevant financial data from various sources is the first step. This data can be analyzed using statistical methods and financial modeling techniques to desive actionable insights.



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- **Benchmarking**: Comparing financial performance against industry standards or competitors can highlight areas for improvement. Benchmarking helps organizations understand their position in the market and identify best practices.
- Scenario Analysis: Conducting scenario analyses allows organizations to evaluate the financial impact of different supply chain strategies. This approach helps in understanding potential outcomes and preparing for various market conditions.



• **Collaboration with Stakeholders**: Engaging with suppliers, customers, and internal teams can provide a holistic view of the supply chain. Collaborative investigations can uncover insights that may not be apparent from financial data alone.

V. RESOURCES FOR FINANCIAL ANALYTICS INVESTIGATIONS How to Enhance Financial Analytics Investigations?





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- **Software Tools**: Utilizing advanced analytics software can streamline data analysis and visualization. Tools like Tableau, Power BI, and specialized supply chain analytics platforms can enhance the investigation process.
- **Training and Development**: Investing in training for staff on financial analytics techniques and tools is essential. A well-trained team can conduct more effective investigations and derive deeper insights.
- **Consulting Services**: Engaging with financial analytics consultants can provide expertise and an external perspective. Consultants can assist in developing tailored investigation approaches that align with organizational goals.
- Industry Reports and Research: Accessing industry-specific reports and research can provide valuable context and benchmarks for financial performance. Staying informed about market trends is crucial for effective decision-making.

VI. APPROACHES TO FINANCIAL ANALYTICS IN SUPPLY CHAIN MANAGEMENT Analytics in Supply Chain Management



A. Descriptive Analytics

1. Definition and Examples

Descriptive analytics refers to the process of analyzing historical data to identify trends, patterns, and insights that can help organizations understand their past performance. It involves the use of statistical methods and data visualization techniques to summarize and interpret data. Examples of descriptive analytics in supply chain management include:

- Sales Reports: Analyzing past sales data to identify seasonal trends and customer preferences.
- **Inventory Levels**: Monitoring historical inventory levels to determine optimal stock levels and reduce holding costs.
- **Supplier Performance**: Evaluating past supplier delivery times and quality metrics to assess reliability and performance.

2. Importance in Understanding Past Performance

Understanding past performance is crucial for supply chain management as it allows organizations to:

• Identify Trends: Recognize patterns in sales, inventory, and supplier performance that can inform future strategies.

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- **Benchmarking**: Compare current performance against historical data or industry standards to identify areas for improvement.
- Risk Management: Analyze past disruptions or failures to develop strategies that mitigate future risks.

3. Tools and Techniques Used in Descriptive Analytics

Several tools and techniques are employed in descriptive analytics to facilitate the analysis of historical data in supply chain management:

- **Data Visualization Tools**: Software like Tableau or Power BI helps create visual representations of data, making it easier to identify trends and insights.
- Statistical Analysis Software: Tools such as R or Python libraries (e.g., Pandas, NumPy) are used for conducting statistical analyses and generating descriptive statistics.
- **Business Intelligence Platforms**: Solutions like SAP BusinessObjects or Microsoft Excel provide functionalities for reporting and data analysis, enabling users to summarize and interpret data effectively.

B. Predictive Analytics

1. Definition and Examples

Predictive analytics refers to the use of statistical techniques, machine learning, and data mining to analyze historical data and make predictions about future events. It involves identifying patterns and trends in data to forecast outcomes.

Examples of predictive analytics include:

- **Customer Churn Prediction**: Analyzing customer behavior to predict which customers are likely to stop using a service.
- Sales Forecasting: Using historical sales data to predict future sales trends and inventory needs.
- Risk Assessment: Evaluating the likelihood of default on loans based on past borrower behavior.

2. Importance in Forecasting Future Trends

- Predictive analytics plays a vital role in helping organizations anticipate future trends and make informed decisions. By leveraging data-driven insights, businesses can:
- Improve operational efficiency by anticipating demand and adjusting resources accordingly.
- Enhance customer satisfaction by personalizing offerings based on predicted preferences.
- Mitigate risks by identifying potential issues before they arise, allowing for proactive measures.

3. Tools and Techniques Used in Predictive Analytics

Several tools and techniques are employed in predictive analytics, including:

- Statistical Methods: Regression analysis, time series analysis, and clustering techniques.
- Machine Learning Algorithms: Decision trees, neural networks, and support vector machines.
- **Data Visualization Tools**: Tableau, Power BI, and Python libraries like Matplotlib and Seaborn for presenting predictive insights.

C. Prescriptive Analytics

1. Definition and Examples

Prescriptive analytics is the process of using data analysis to recommend actions that can help achieve desired outcomes. It goes beyond predicting future events by suggesting optimal decisions based on the analysis. Examples of prescriptive analytics include:

- **Supply Chain Optimization**: Recommending the best inventory levels and distribution strategies to minimize costs and meet demand.
- Marketing Campaign Optimization: Analyzing customer segments to determine the most effective marketing strategies and channels.

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• Financial Portfolio Management: Providing investment recommendations based on risk tolerance and market conditions.

2. Importance in Decision-Making and Optimization

Prescriptive analytics is crucial for organizations aiming to enhance their decision-making processes and optimize operations. Its importance lies in:

Enabling data-driven decisions that align with business objectives.

Enhancing resource allocation by identifying the most effective strategies.

Increasing competitiveness by allowing organizations to respond swiftly to changing market conditions.

3. Tools and Techniques Used in Prescriptive Analytics

Various tools and techniques are utilized in prescriptive analytics, including:

- **Optimization Algorithms**: Linear programming, integer programming, and genetic algorithms for finding optimal solutions.
- Simulation Models: Monte Carlo simulations to assess the impact of uncertainty on decision outcomes.
- **Decision Support Systems**: Software solutions that integrate data analysis with business rules to provide actionable recommendations.

In conclusion, both predictive and prescriptive analytics are essential components of modern data analysis, providing organizations with the insights needed to forecast trends and make informed decisions. By understanding and utilizing these analytics types, businesses can enhance their strategic capabilities and drive growth.



VII. RESOURCES FOR FINANCIAL ANALYTICS IN SUPPLY CHAIN MANAGEMENT

It highlights the various data sources, technology and tools, and the necessary skills and expertise that professionals need to harness financial analytics to optimize supply chain operations. By understanding these resources, organizations can make informed decisions that enhance efficiency and profitability.

A. Data Sources

1. Internal Data from ERP Systems

Enterprise Resource Planning (ERP) systems serve as a central repository for internal data, providing insights into inventory levels, production schedules, and financial transactions. This data is crucial for analyzing costs, forecasting demand, and evaluating supplier performance.

2. External Data from Suppliers and Customers

Engaging with suppliers and customers can yield valuable external data. This includes pricing information, delivery performance, and customer feedback. Such data helps organizations assess market trends and make strategic decisions regarding procurement and sales.

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3. Publicly Available Data from Government Agencies and Industry Reports

Government agencies and industry reports provide a wealth of publicly available data that can be leveraged for financial analytics. This includes economic indicators, regulatory changes, and industry benchmarks, which can inform strategic planning and risk management.

B. Technology and Tools

1. Data Visualization Software

Data visualization tools enable organizations to present complex data in an easily digestible format. These tools help stakeholders identify trends, patterns, and anomalies in financial data, facilitating better decision-making.

2. Business Intelligence Platforms

Business intelligence platforms aggregate data from various sources, allowing for comprehensive analysis and reporting. These platforms support real-time data access and enable organizations to monitor key performance indicators (KPIs) effectively.

3. Advanced Analytics Software for Modeling and Simulation

Advanced analytics software provides capabilities for modeling and simulation, allowing organizations to test various scenarios and predict outcomes. This is particularly useful for financial forecasting and risk assessment in supply chain management.

C. Skills and Expertise

1. Data Analysis and Interpretation

Professionals in financial analytics must possess strong data analysis skills to interpret complex datasets accurately. This includes the ability to use statistical methods and analytical tools to derive meaningful insights.

2. Supply Chain Management Knowledge

A solid understanding of supply chain management principles is essential for effectively applying financial analytics. This knowledge helps professionals align financial strategies with supply chain operations and objectives.

3. Financial Acumen and Strategic Thinking

Financial acumen is critical for evaluating the financial implications of supply chain decisions. Coupled with strategic thinking, this skill set enables professionals to develop long-term financial strategies that support organizational goals. By leveraging these resources, organizations can enhance their financial analytics capabilities in supply chain management, leading to improved operational efficiency and profitability.

VIII. CHALLENGES AND FUTURE DIRECTIONS

A. Data Quality and Integration Issues

Assuring high-quality data and effective integration is a major difficulty in financial analytics for supply chain management. Inconsistencies and errors in financial reporting and analysis are common results of organizations' struggles with various data sources. The supply chain operations can take a hit if decisions are made based on inaccurate or incomplete data. Data integration is still a challenging undertaking, especially when it comes to diverse systems like ERP, CRM, and logistics platforms. Overcoming these challenges and achieving a unified view of financial and operational data requires strong data management techniques and technology, which companies must invest in.

B. Implementation and Adoption Challenges

There are many obstacles to overcome when using financial analytics tools for supply chain management. The effective implementation of these instruments may be impeded by staff resistance to change, an absence of proper training, and inadequate backing from upper management. Aligning analytics activities with broader business strategy can sometimes be challenging for firms. Companies can overcome these obstacles by encouraging data-driven decision-making, offering thorough training programs, and connecting analytics efforts to overall business goals. Financial analytics will be more widely used and implemented with less friction if this is done.

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C. Emerging Trends in Financial Analytics for Supply Chain Management

A number of new developments are influencing the trajectory of financial analytics within the context of supply chain management. With the proliferation of AI and ML, businesses are able to extract more actionable intelligence from their data, opening the door to greater predictive and prescriptive analytics. More nimble supply chain strategies are also being driven by the growing significance of real-time data analytics. Organizations are increasingly incorporating sustainability and ethical issues into financial analytics in their pursuit of a balance between profitability and social responsibility. If businesses want to use financial analytics to boost supply chain performance and compete more effectively, they need to keep up with these trends.

X. CONCLUSION

To sum up, financial analytics is a must-have for efficient supply chain management since it gives businesses the data they need to make smart choices and enhance their processes. Businesses may improve their demand forecasting, inventory management, and risk mitigation capabilities by using advanced data analytics tools and processes. A more nimble and responsive supply chain is one result of the collaborative approach encouraged by financial analytics, which in turn builds connections with both suppliers and customers. Organizations must prioritize investing in financial analytics skills to gain a competitive edge and drive sustainable growth as they navigate the ever-changing global market.

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