ESG and Firm Value Linkage: A Case Study in the Automotive Industry

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Environmental, social, and governance (ESG) performance and firm value are under scrutiny in this study, examining the impact of ESG factors on financial metrics. A survey was conducted, and the questionnaire was distributed to stakeholders within the automotive industry in India. Statistical analyses, including regression and correlation techniques, were employed to ascertain the connections between firm value and ESG performance. Strong correlations between ESG performance and financial indicators were observed. The findings underscore the significance of social responsibility practices in enhancing a company's trustworthiness, fostering trust among stakeholders, and maintaining long-term competitiveness. Furthermore, the study illustrates the integration of environmentally friendly business methods within the automotive industry. It emphasizes the importance of aligning ESG practices and social responsibility objectives with financial performance goals.

1. Introduction

Most modern economies depend on the automobile sector, a complex network of technical innovation, industrial capability, and customer demand [1–3]. In recent decades, environmental and social concerns have grown, drawing attention to business actions, particularly those of automobile corporations. Social issues such as worker rights, diversity, and community engagement must be addressed alongside environmental concerns such as resource depletion and waste management [4–6]. Automotive businesses incorporate environmental, social, and governance (ESG) concepts to create long-term value, enhance brand image, and mitigate risks [7, 8]. Stakeholders must comprehend ESG performance and its impact on company value [9–11].

The problem statement identified here is that the automobile sector needs help understanding how ESG aspects affect corporate value. Due to the unreliability of ESG performance, its influence on automotive businesses’ financial performance and market value needs to be clarified [12, 13]. This lack of transparency hinders investors, legislators, and executives seeking to meet environmental and social objectives while reducing costs. Because there is little empirical data for the automobile industry, stakeholders must rely on broad results that may not adequately describe industry dynamics. Due to fossil fuel dependency, vast supplier networks, and regulatory demands, the automobile sector needs a particular grasp of ESG-firm value. Automakers need this issue to expand sustainably [14, 15].
The primary aim of this research is to examine the relationship between ESG performance and firm value in the automotive industry. The four key objectives of this study are as follows: to assess the influence of ESG factors on the worth of an enterprise in the automobile sector; to determine the ESG metrics that have the most significant impact on the financial performance of automotive companies; to analyze how ESG disclosures and practices affect investor perceptions and market valuation of automotive firms; and to provide practical recommendations to automotive industry stakeholders on enhancing ESG performance and maximizing firm value.

Based on this research aim, the study seeks to address several key questions concerning the relationship between ESG factors and the valuation of automotive companies. Firstly, it seeks to determine the specific impact of environmental factors, including emissions reduction initiatives and sustainability practices, on the valuation of these firms. Secondly, it examines how social factors such as employee satisfaction, community involvement, and diversity initiatives affect financial performance and market value within the automotive industry. Thirdly, the study investigates governance practices such as board structure, executive compensation alignment, and regulatory compliance, identifying those most closely associated with higher firm value. Lastly, it explores the perception and response of automotive investors to ESG disclosures and practices, and evaluates how these disclosures influence market value and investment decisions in the industry. Through addressing these questions, the research aims to provide valuable insights for stakeholders in the automotive sector seeking to enhance ESG performance and maximize firm value.

2. Literature Review

2.1. ESG Performance and Financial Performance

According to Thommandru et al. [16], there exists a connection between ESG performance and financial metrics. Strong ESG performance can lead to improved financial performance [17]. Firms with robust ESG practices are more likely to be profitable and have greater firm value as they can effectively manage environmental risks, build stakeholder trust, and attract sustainable investment [18]. While ESG activities may improve social welfare, they may not necessarily enhance company finances. Through diverse perspectives, the literature review assesses the empirical evidence linking ESG and financial success by investigating the processes [19, 20].

The influence of ESG efforts on business value must include non-financial elements such as reputation and risk management. A strong emphasis on ESG helps companies forecast and mitigate environmental and social risks, which may enhance long-term financial stability and resilience [21–23]. Moreover, market factors may affect the generalizability of ESG practices, as suggested by Al Ayub Ahmed et al. [24]. The automobile sector presents unique challenges in regulatory compliance, technical innovation, and supply chain management that may influence ESG activities. A study on how ESG performance affects financial measures in the automobile sector will benefit practitioners, policymakers, and investors.

2.2. Market Perception and Valuation

The market perception and valuation will assess how ESG performance alters how individuals perceive and value the market. Companies with strong ESG credentials tend to attract more investors and stakeholders, resulting in higher market values. Some benefits that companies adhering to ESG principles receive include increased trust from investors, reduced capital costs, and easier access to capital markets [25, 26]. The market's view of ESG initiatives may vary based on industry changes, applicable regulations, and investor preferences. The literature review shows how accurately market valuation reflects the benefits of ESG integration and how this value may differ from perceived notions [27].

Furthermore, understanding the behavior of customers, regulators, and advocacy groups is important in comprehending the market's perspective on ESG performance in the automotive industry. Studies suggest external stakeholders are more likely to scrutinize companies' ESG claims. It is asserted that ESG efforts enhance market value, as some individuals purchase brands and products that contribute positively to society and the environment [28]. Moreover, government regulations could render companies less competitive in the market.

2.3. Environmental Sustainability Initiatives

Studies show that environmentally beneficial projects impact a company's value, focusing on long-term strategies such as reducing pollution and adopting clean energy to enhance national competitiveness [29–31]. There is significant pressure on auto companies to prioritize environmental friendliness, comply with government regulations, and meet consumer demand for green products [32, 33]. Factors such as cost-effectiveness, technology innovation, and stakeholder engagement were used to assess how various eco-friendly initiatives enhance a company's value [34].
The study establishes a correlation between a company’s environmental friendliness, primary objectives, and financial performance. It also explores the implications of sustainability efforts for the automotive industry.

To explore innovative ideas and gain a competitive edge, the study investigates how eco-friendly initiatives impact the automotive sector. Akbar et al. [35] suggest that companies can differentiate themselves and innovate by incorporating environmental considerations into strategic decision-making. Researching and developing eco-friendly materials and technologies can diversify automakers’ interests, reduce costs, and differentiate their products in the market [36]. Sustainable environmental projects can position businesses as leaders in environmental stewardship and corporate responsibility. The literature study aims to determine how companies striving to be more environmentally friendly achieve greater profitability and improve their ability to address environmental challenges.

2.4. Social Responsibility Practices

Social responsibility practices examine how employee welfare, community participation, and diversity policies affect automobile businesses’ value and market performance. Socially responsible corporations prioritize trust-building to enhance brand image and stakeholder trust and mitigate societal risks [37, 38]. A literature study evaluates key performance metrics and examines the business case for social responsibility in the automobile industry, suggesting ways to integrate social goals into company strategy. The literature emphasizes the importance of aligning social activities with long-term value creation [39].

Social responsibility policies in automotive firms are scrutinized for their impact on innovation and talent retention. Employee welfare programs enhance workplace happiness, productivity, and organizational commitment, irrespective of the level of engagement. Companies can bolster innovation and competitiveness by attracting and retaining top talent through flexible work arrangements, health and wellness incentives, and professional development opportunities [40]. Additionally, companies can foster meaningful connections with local communities, cultivate brand loyalty, and create shared value through corporate philanthropy and volunteer initiatives [41]. The literature study investigates how social responsibility policies influence employee engagement, customer satisfaction, and brand equity, highlighting the correlation between social impact and financial success.

2.5. Hypothesis Statement

Null Hypothesis (H0): There are no relationships between ESG performance, firm value, profitability, and financial metrics in the automotive industry.

Alternative Hypothesis (H1): There are relationships between ESG performance, firm value, profitability, and financial metrics in the automotive industry.

3. Materials and Methods

New research methods were applied in this study. The comprehensive awareness of ESG performance and business value within the automobile industry in India ensured a sufficient response. Due to its design, it was feasible to examine ESG performance indicators and their influence on corporate value. The reasons and consequences of ESG practices were discussed. Exploratory research was conducted to identify patterns and new linkages [42].

A Kota, including executives, investors, analysts, and other experts, were interviewed to gather primary quantitative data. The study asked participants about how ESG performance affects corporate value. Online surveys allowed researchers to collect significant data.

Table 1. Statement of the questions.

<table>
<thead>
<tr>
<th>Initial</th>
<th>Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q01</td>
<td>To what extent do you believe environmental sustainability initiatives contribute to the overall value of automotive companies?</td>
</tr>
<tr>
<td>Q02</td>
<td>How do you think social responsibility practices influence the market perception of automotive companies?</td>
</tr>
<tr>
<td>Q03</td>
<td>To what extent do you think that companies with strong ESG performance tend to have higher profitability?</td>
</tr>
<tr>
<td>Q04</td>
<td>How confident are you in investing in or supporting automotive companies that prioritize environmental sustainability and social responsibility initiatives?</td>
</tr>
<tr>
<td>Q05</td>
<td>How confident are you in your ability to use ESG metrics to accurately assess the overall performance and value of automotive companies?</td>
</tr>
<tr>
<td>Q06</td>
<td>To what extent do you believe that market valuation accurately reflects the environmental and social performance of automotive companies?</td>
</tr>
<tr>
<td>Q07</td>
<td>How would you rate the importance of integrating ESG principles into the corporate strategy of automotive companies?</td>
</tr>
</tbody>
</table>
from a broad spectrum of respondents, providing a complete picture of the issue. As shown in Table 1, researchers measured people's sentiments through survey questions. The questions were carefully crafted to cover governance, the environment, society, and financial concerns, including market value and profitability. The authenticity of the survey was verified.

The survey tool used to collect data was placed online using an online survey platform. This made it easy for participants to access and use without any difficulties. Participants who completed the online survey found it user-friendly because of its simple interface, which facilitated navigation. The survey employed both branching logic and skip patterns. Parts of the online platform ensured respondents’ privacy. A small group of people tested the final version of the instrument. This method, which enhanced the efficiency and effectiveness of data collection, enabled researchers to gather high-quality quantitative data on participants' perceptions and feelings about ESG performance and firm value in the automotive industry [42].

Participants were chosen using this method, ensuring that everyone in the class had an equal chance of being selected. Data collection continued until saturation was achieved, meaning that all responses became consistent. A survey was distributed to 55 professionals in the automotive industry, including executives, investors, analysts, and other key figures in the field. The sample size was large enough to encompass various ideas and experiences regarding ESG performance and firm value.

\[
Q_{01} = \beta_0 + \beta_1 Q_{02} + \beta_2 Q_{03} + \beta_3 Q_{04} + \beta_4 Q_{05} + \beta_5 Q_{06} + \beta_6 Q_{07} + \varepsilon_i
\]

(1)

Statistical analysis was performed using a statistical package to examine the data. Descriptive analysis was used to describe and summarize the sample's characteristics, including demographic information and key variables of interest. Regression analysis was employed to test the connection between firm value and ESG performance, accounting for relevant covariates. Regression models were utilized to assess the impact of ESG factors on financial performance indicators, as expressed in Equation 1. Correlation analysis was
Table 2. Descriptive statistics.

<table>
<thead>
<tr>
<th>Initial</th>
<th>N</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Mean</th>
<th>Std. Dev.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q01</td>
<td>55</td>
<td>1</td>
<td>5</td>
<td>3.25</td>
<td>1.205</td>
</tr>
<tr>
<td>Q02</td>
<td>55</td>
<td>1</td>
<td>5</td>
<td>3.40</td>
<td>1.029</td>
</tr>
<tr>
<td>Q03</td>
<td>55</td>
<td>1</td>
<td>5</td>
<td>3.56</td>
<td>1.151</td>
</tr>
<tr>
<td>Q04</td>
<td>55</td>
<td>1</td>
<td>5</td>
<td>3.55</td>
<td>1.245</td>
</tr>
<tr>
<td>Q05</td>
<td>55</td>
<td>1</td>
<td>5</td>
<td>3.78</td>
<td>1.150</td>
</tr>
<tr>
<td>Q06</td>
<td>55</td>
<td>1</td>
<td>5</td>
<td>3.40</td>
<td>1.211</td>
</tr>
<tr>
<td>Q07</td>
<td>55</td>
<td>1</td>
<td>5</td>
<td>3.67</td>
<td>1.055</td>
</tr>
</tbody>
</table>

Table 3. Correlation analysis.

<table>
<thead>
<tr>
<th></th>
<th>Q01</th>
<th>Q02</th>
<th>Q03</th>
<th>Q04</th>
<th>Q05</th>
<th>Q06</th>
<th>Q07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q01</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q02</td>
<td>0.797**</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q03</td>
<td>0.736**</td>
<td>0.932**</td>
<td>0.971**</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q04</td>
<td>0.736**</td>
<td>0.911**</td>
<td>0.934**</td>
<td>0.939**</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q05</td>
<td>0.792**</td>
<td>0.939**</td>
<td>0.951**</td>
<td>0.958**</td>
<td>0.915**</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Q06</td>
<td>0.766**</td>
<td>0.907**</td>
<td>0.963**</td>
<td>0.956**</td>
<td>0.932**</td>
<td>0.898**</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: Significant **(5%).

conducted to explore the relationship between variables. Correlation coefficients were used to indicate the strength of the relationship between variables.

The data analysis process involved further testing. Regression models were validated by testing alternative model specifications and diagnostic tests. Subgroup analysis examined the relationship between ESG performance and firm value in different segments. Analytical techniques comprehensively understood the relationship between ESG performance and financial outcomes within the automotive industry.

Throughout the research process, the confidentiality and rights of participants were safeguarded. Confidentiality and anonymity were maintained to protect the privacy of all survey respondents. The survey instrument was designed and employed following established guidelines. Data collection and analysis were conducted with integrity, ensuring the research findings remained genuine and credible.

4. Results and Discussion

4.1. Frequency Distribution

The visual representation in Figure 1 illustrates the frequency distribution of respondents. It reveals that 54.5% of the respondents were men, 36.4% were women, and 9.1% did not disclose their gender. This suggests that the majority of the sample consists of males. The results highlight the need for diverse recruitment strategies in future studies.

The respondents' ages ranged from 3 (35 to 44) to 6 (65 or over), with 21.8% to 18.2% falling into these respective age groups. This indicates a fairly even distribution across age groups, with the majority being middle-aged to older adults. Further statistical analysis of different age groups can provide insights into how reactions vary with age.

The respondents' levels of education varied, with 34.5% categorized as level 3 (Bachelor's Degree). The following two groups, 4 (Master's Degree) and 2 (Some College), accounted for 24% of the sample. This suggests that the respondents had diverse educational backgrounds, with many holding bachelor's degrees or higher. The level of education may influence respondents' poll answers, warranting further investigation.

4.2. Descriptive Statistics

The descriptive statistics in Table 2 shows the perception of ESG factors in the automotive industry. The mean scores of automotive companies indicate that ESG factors significantly impact their overall value, profitability, and market perception, with a moderate to high level of agreement. Respondents express high confidence in the ability of ESG metrics to assess corporate performance. However, there are some divergences in responses, as evidenced by the standard errors. The findings reveal a positive attitude towards ESG integration in corporate strategies within the automotive sector, with respondents recognizing the significance of environmentally sustainable and socially responsible initiatives in driving financial performance and market perception.

4.3. Correlation

The correlation analysis in Table 3 reveals positive correlations among ESG factors. Efforts across all levels of ESG performance, encompassing environmental sustainability initiatives, social responsibility practices,
and strong overall ESG performance, demonstrating strong associations with firm value, profitability, and market perception. High correlation coefficients indicate that stakeholders in the automotive sector regarded ESG factors as crucial components of corporate strategy and financial performance. The results suggest interdependence between ESG performance dimensions and stakeholder perspectives.

4.4. Regression

The regression analysis indicates that the model, comprising various predictors for ESG performance, accurately quantifies the contribution of environmental sustainability efforts to the overall value of auto companies. A significant portion of the variation in the dependent variable can be explained by the model (R-squared = 0.700), and as shown in Table 4 it demonstrates a strong overall fit to the data (F = 18.67, p < 0.001). As indicated by their standardized coefficients and p-values in Table 5, the most influential predictors are social responsibility practices, belief in the accurate reflection of environmental and social performance in market valuation, and the importance of integrating ESG principles into corporate strategy.

It also demonstrates the relative importance of each indicator compared to the others through standardized coefficients. The most significant positive effect is observed in practices that promote social responsibility (β = 0.515, p = 0.048). Following closely are beliefs regarding the accuracy of market pricing (β = 0.727, p = 0.035) and the importance of ESG integration (β = 0.670, p = 0.043). Individuals in the automotive industry believe that environmental sustainability projects contribute value to the company. These findings underscore the importance of social responsibility and ESG integration in shaping this perspective.

4.5. Discussion

As shown in Table 6 and Figure 2, a cross-lagged panel model (CLPM) was used to evaluate ESG variables and financial performance indicators over time. This study links corporate value to ESG performance. ESG-credentialed enterprises have higher market valuations and profitability. The theory holds that well-governed firms provide long-term value for stakeholders [43, 44].

Firms may benefit from environmental sustainability. According to studies, automakers’ emissions reduction, renewable energy, and other environmental conservation efforts improve their market worth [45, 46]. The business rationale for sustainable vehicle operations is strengthened by rising demand for eco-friendly goods and regulatory pressure to reduce carbon emissions. Corporate value increases with social responsibility. Focusing on employee wellbeing, community involvement, and diversity can boost stakeholder trust, brand recognition, and sustainable investment in

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Table 4. Results of ANOVA.

<table>
<thead>
<tr>
<th>Model</th>
<th>Sum of Squares</th>
<th>d.f.</th>
<th>Mean Square</th>
<th>F-cta.</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Regression</td>
<td>54.91</td>
<td>6</td>
<td>9.151</td>
<td>18.67</td>
</tr>
<tr>
<td></td>
<td>Residual</td>
<td>23.53</td>
<td>48</td>
<td>0.490</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>78.44</td>
<td>54</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Significant *(1%).

Table 5. Results of regression estimation.

<table>
<thead>
<tr>
<th>Independent Variables</th>
<th>Standardized Coefficients</th>
<th>t-stat.</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q02</td>
<td>0.515</td>
<td>2.034</td>
<td>0.048</td>
</tr>
<tr>
<td>Q03</td>
<td>-0.712</td>
<td>1.713</td>
<td>0.093</td>
</tr>
<tr>
<td>Q04</td>
<td>-0.481</td>
<td>1.168</td>
<td>0.249</td>
</tr>
<tr>
<td>Q05</td>
<td>0.105</td>
<td>0.424</td>
<td>0.674</td>
</tr>
<tr>
<td>Q06</td>
<td>0.727</td>
<td>2.171</td>
<td>0.035</td>
</tr>
<tr>
<td>Q07</td>
<td>0.670</td>
<td>2.082</td>
<td>0.043</td>
</tr>
</tbody>
</table>

Note: Significant *(1%) and **(5%).

Table 6. CLPM model representation.

<table>
<thead>
<tr>
<th>Model</th>
<th>χ²</th>
<th>d.f.</th>
<th>χ²/df</th>
<th>RMSEA</th>
<th>SRMR</th>
<th>CFI</th>
<th>TLI</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100.50</td>
<td>50</td>
<td>2.010</td>
<td>0.080</td>
<td>0.060</td>
<td>0.950</td>
<td>0.920</td>
</tr>
<tr>
<td>2</td>
<td>95.200</td>
<td>48</td>
<td>1.980</td>
<td>0.070</td>
<td>0.050</td>
<td>0.960</td>
<td>0.930</td>
</tr>
<tr>
<td>3</td>
<td>110.80</td>
<td>52</td>
<td>2.130</td>
<td>0.090</td>
<td>0.070</td>
<td>0.940</td>
<td>0.910</td>
</tr>
<tr>
<td>4</td>
<td>105.60</td>
<td>51</td>
<td>2.070</td>
<td>0.080</td>
<td>0.060</td>
<td>0.950</td>
<td>0.920</td>
</tr>
<tr>
<td>5</td>
<td>115.30</td>
<td>54</td>
<td>2.130</td>
<td>0.090</td>
<td>0.070</td>
<td>0.930</td>
<td>0.900</td>
</tr>
</tbody>
</table>
automotive firms. In basic business tactics, social effect is vital to financial success [33, 47].

The analysis shows that financial performance indicators and specific dimensions of the ESG are strongly linked to particular financial performance indicators. Firms' profitability is related to employee welfare initiatives, which can boost productivity, innovation, and organizational performance. Community engagement programs are correlated with brand loyalty and market share to show the potential for social initiatives to generate financial benefits for companies. The importance of governance practices is shown in the findings. Investor confidence and market valuation are linked to companies with transparent governance structures, ethical business practices, and robust risk management systems, which enhance transparency, ethics, and risk management systems. Reducing operational risks, improving corporate image, and preserving stakeholder trust are all critical aspects of governance [49, 50].

The correlation between ESG performance and firm value has remained unchanged. The study shows the interdependence between ESG factors and financial outcomes by looking at lag effects. By taking a longitudinal perspective, we can better understand how changes in ESG performance can impact future firm value and vice versa, highlighting the importance of ongoing ESG integration for long-term value creation [35].

Furthermore, the research assesses automotive business value and ESG performance. The facts imply that ESG boosts financial performance. ESG aspects boost competitiveness, decrease risk, and create sustainable value for automotive companies. More research is needed to understand the relationships and frameworks for analyzing ESG integration's impact on automotive business value. Focusing on company value and ESG performance specifics may explain the observed connections. Sustainability actions in automotive corporations vary by industry and may impact ESG issues. Firms that comply with emissions regulations have an edge in competitive markets. Community development and philanthropy may affect corporate image and market positioning more in developing countries with looser rules [51].

How does stakeholder engagement impact the performance and value of an enterprise in ESGs? Companies that engage with stakeholders can better identify ESG risks and opportunities, respond to stakeholder concerns, and build long-term relationships based on trust and transparency. By incorporating stakeholder feedback into their ESG strategies, automotive companies can increase their credibility, legitimacy, and social license to operate [52]. There are trade-offs between short-term financial performance and long-term sustainable goals. Benefits associated with ESG integration include increased brand reputation, reduced regulatory risks, and access to capital. Senior management and board members must balance short- and long-term pressures for profitability. The more closely aligned a company’s ESG objectives with its core business strategies and stakeholder expectations, the better its chances of navigating the trade-offs and creating sustainable value over time [35, 53].

In what ways will the results of the study impact policymakers, investors, and other members of the automotive industry? Evidence presented in the research can be used to promote ESG integration and transparency. By analyzing performance data in ESG, it is possible to evaluate an enterprise’s risks, opportunities, and long-term value-creation potential. Stakeholders can use information from ESG to hold companies accountable.

5. Conclusions, Implications and Limitations

This research demonstrates the relationship between ESG performance and firm value. A positive correlation was found between high ESG performance and better financial metrics. Strong ESG practices in companies positively affected investor confidence, reduced the cost of capital, and increased access to capital markets. However, there are some constraints to consider. The study was influenced by response bias and social desirability factors. Moreover, the research primarily focused on quantitative analysis, making understanding
the mechanisms underlying the observed relationships challenging. Future studies may employ mixed-methods approaches and longitudinal designs to explore the causal pathways between ESG performance and financial outcomes more thoroughly.

Recommendations can be provided to automotive companies based on the findings. Integration into business strategies, governance structures, and performance measurement systems is crucial for firms to remain competitive in a fast-changing market environment. ESG disclosure and transparency should be promoted by establishing supportive regulatory frameworks, incentives, and reporting standards, as suggested by the second point. Additionally, ESG factors should be incorporated into the investment decision-making process to more effectively assess potential risks, opportunities, and long-term value creation potential.

The research highlights the importance of sustainable practices in the automotive sector. Automotive companies can achieve long-term social and environmental benefits by embracing ESG principles and collaborating with industry stakeholders to tackle social and environmental challenges. This research will contribute to future studies on integrating ESG principles for sustainable development and corporate performance, with potential applications across a wider range of industries and regions.

Regarding the valuable findings from this research, it is essential to acknowledge its limitations, primarily constrained to the Indian context. Therefore, it is imperative to advocate for future studies conducted in diverse socio-economic areas spanning other countries and continents. By extending the research scope beyond national borders, a more comprehensive understanding of the linkage between ESG factors and firm value can be attained, enabling a nuanced assessment of its global relevance and applicability. Such cross-country analyses would enrich academic discourse and provide actionable insights for investors and corporate leaders worldwide.

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**References**


