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Green IT Strategies and Career Growth: A Study Among IT Professionals

Ashitha Ashok C.*, B. Menaka**

Abstract

Today the digital world is changing fast and sustainability is not just a buzzword. It is becoming a prominent value for industries all around and the information technology (IT) sector is no exception. This study undertakes a close look at how green IT strategies are useful not only to the surroundings but also to the growth of IT employees. Green IT focuses on how technologies are helpful to the planet. Due to increased concern over climatic change firms are using eco-friendly practices. This research shows IT professionals managing green scenarios, attaining sustainable software development and reducing wastage. By using existing research, industry experts, and case study examples the paper shows that those who use these green initiatives often benefit beyond the environment. They attain technical skill, better job opportunities, and even position themselves for leadership goals. This study also shows that green IT practices help the business reduce its costs, boosting innovation and improving efficiency. For IT sectors these practices give way to new areas such as green cloud computing, smart artificial intelligence (AI), and recycling. On the other hand, companies that give priority to sustainable goals are also putting in efforts to increase their business reputation and building healthier communities. In addition, the research shows how workplace behaviour and culture encourage employee participation in achieving green IT. While the company aims to achieve sustainability and corporate social responsibility (CSR) goals, employees are more likely to be involved in the process and for their efforts, they are rewarded and recognised. It is a future-thinking approach that combines environment care with efficient career planning. It is employees who make use of these green practices and they are not only protecting the planet but also competing for success in an evolving job market. The study helps both the employer and employee work together to create a sustainable digital future where innovation and environmental responsibilities go hand in hand.

Keywords: Environmental Sustainability, Green IT, Technology, Career Growth, Eco Friendly Impact

Introduction

In today's evolving digital world environmental sustainability has become a key element across industries. The technology sector is no exception. Due to increased carbon footprint and energy usage, the concept of green information technology (IT) has become a solution for making technology more environment friendly. Green IT is a system that uses, designs, and disposes computer resources in a way that reduces the environmental impact. For the IT sector usage of green IT is not only to protect the planet but to also improve career growth and innovation in sustainable development. IT employees play an important role in incorporating sustainability practices within the firms such as reducing energy in cloud computing. IT employees can make use of eco-friendly strategies to reduce cost and improve efficiency in the organisation. Moreover, companies all over the world are giving more priority to sustainability and thereby creating demand for IT jobs that specialise in energy-efficient development, IT

* Research Scholar, Department of Commerce, Alagappa University, Karaikudi, Tamil Nadu, India.
Email: ashithaashokphd@alagappauniversity.ac.in

** Assistant Professor, Department of Commerce, Alagappa University, Karaikudi, Tamil Nadu, India.
Email: menakab@alagappauniversity.ac.in

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infrastructure, and green data management. In addition, by gaining expertise in green IT, employees can improve their career growth by contributing to a sustainable digital world in the future. Beyond these strategies they can also make an impact by promoting sustainable work habits. By encouraging remote working they can reduce carbon emissions, paperless workflows, and support recycling of electronic devices to ensure sustainability in their profession. Despite this the emergence of green cloud computing and eco-friendly artificial intelligence (AI) gives IT professionals new opportunities to develop their innovative solutions, thereby balancing their technological advancement. As corporates are becoming more reliant on digital technology the impact of the IT industry has become a great concern from facing the risk of energy consumption to the problem of e-waste without harming the wonderful planet in which we live. Here green IT has gained more importance in improving sustainability goals. For the IT sector the present study not only has a moral imperative but also an opportunity to make use of technical skills with the world sustainability movement. As organisations all over the world are adopting eco-friendly strategies and innovation to reduce carbon footprints those employees who are qualified in green IT are finding themselves highly in demand. Moreover green IT is not just a trend; it is a system focusing on a future-oriented responsible and sustainable digital world. Those who actively engage in these initiatives help the environment by reducing many harmful threats and also improving their green technology career in the future world. By using their technical skills and sustainability practices IT professionals can contribute both to the organisation and firm.

Significance of the Study

In today's world of technology, it is very difficult to ignore the technological impact on the environment. The IT industry plays a major role in addressing climate change and sustainability. This study is very important because it shows IT employees their light on changing scenarios. This research also highlights how IT professionals take decisions on choosing greener coding practices and using paperless workflows, which will directly affect the sustainability and environmental growth. It shows that green IT strategies are not only good for our beautiful planet but also gives them the opportunity to move towards better career opportunities. It enhances the tech professionals to improve their efficiency and reliability, thereby helping them contribute to environmental sustainability. Corporates are seeking for those employees who can understand eco-friendly technologies. Green IT talents are given a better position, leadership roles, rewards, and recognition. In this competitive job market those who can contribute both to innovation and sustainability will survive. In addition, the research gives more valuable insights and green skills to the companies for future decision-making. As all the companies are looking forward to achieving the environmental sustainability goals, they only prefer those candidates who can bring these plans to life as well as profession. It also emphasises the impact of green IT strategies that will benefit the companies such as cost reduction, increase in reputation, and attaining CSR goals. This makes employees feel that they are being valued and inspired.

Statement of the Problem

In today's technology-driven world digital infrastructure is developing very fast, so it is difficult to manage environmental well-being. Data processing centres require huge energy and as a result e-waste and carbon footprint from the IT sector increases. Despite all these scenarios many technically skilled employees are not aware how activities such as coding and cloud computing directly affect the environment. Without knowing this many organisations are adopting new environment sustainability goals that will adversely affect the relationship between the employee's contribution and environmental initiatives. As a result, there is an ambiguity that arises with them. This creates a gap that results in the empowerment of IT professionals and that also reduces the impact of sustainability. Today IT professionals are looking to upgrade their skills as well as talents so the integration of green IT strategies for their career development is very crucial. Many employees are still unaware of the influence of these technologies that can boost their career advancements. Due to this vagueness tech professionals are not able to align their career enhancements with environmental responsibility. This research bridges the gap by identifying how green IT strategies serve as an advantage both for the planet and the tech professionals for their career development.

Purpose of the Study

The aim of the study is to know how IT employees can actively participate in green initiative goals through green IT strategies and also how they can develop their career opportunities. While there is an increase in green business operations, the involvement of these tech professionals in reducing e-waste and carbon footprint, thereby enhancing environment-friendly solutions, is increasingly important. This study aims to highlight how adopting green IT not only supports corporate environmental goals but also helps individuals gain valuable skills, enhance their professional reputation, and unlock new career opportunities. By understanding this connection, the study encourages both employees and organisations to see sustainability not as a separate initiative, but as a shared pathway to innovation, responsibility, and long-term growth.

Objectives of the Study

- To study the role of green IT practices on career growth opportunities for IT employees.
- To study the green IT strategies that employees can implement to reduce environmental impact.
- To study the corporate sustainability policies in influencing employees' participation in Green IT initiatives.

Literature Review

Arshian Sharif et al. (2024) in their study found that the three interrelated pillars that affect economics and societies are green initiatives, renewable resources, and globalisation. By using these resources effectively and with the help of environmental policies we can achieve economic development and environmental protection. The study aimed to inculcate environment and economic parameters by examining the need of green initiatives and renewable energy sources in maintaining ecological balance with highest environmental impact. These results highlight the need for the decision makers to prioritise the environment and sustainable agreements to make progress towards the future.

M. Radhakrishnan and B. Meenakumari (2023) examined how sustainability initiatives have become central to corporate strategies in India. The authors highlight the role of environmental consciousness and organisational leadership in promoting green identity among Indian companies. The study explores how environmental values are being embedded into corporate identity through initiatives such as sustainable infrastructure, eco-friendly manufacturing, and green certifications. The article presents an in-depth analysis of how corporates adopt green branding not only for regulatory compliance but also to gain competitive advantage and build reputation.

Meenakshi, Rakesh Kumar and Lal Singh Yadav (2023) studied the importance of the green economy in developing environmental challenges. Their study showed that green economy is very important in inculcating environmental strategies to India's economic aspirations. The findings showed that our nation is adopting many practices of green technologies and green finance, thereby enhancing the regulatory framework.

M. Jayalakshmi and M. Mahalingam (2020) in their study found that eco-friendly developments focus on meeting the needs of the current generation and the ability of future generations to meet their own needs. The protection of environment, conservation of resources, and other economic aspects are essential for sustainability of an environment. Nowadays, consumers are demanding more green products to preserve the environment, birds, and animals and this enables them to lead greener lives with less pollution.

Rambalak Yadav (2017**)** found that the various activities undertaken by business firms have negatively affected the ecosystem and is considered as the main reason for environmental hazards. The degradation of the ecosystem has adversely affected the surroundings as well as the health and well-being of the humans. For the safety of the environment problems are detected and immediate actions are undertaken to safeguard the lives on earth. Consumers are very vigilant to these issues and they prefer to start those businesses that provide environmental upgradation initiatives. After seeing all these positive responses from the consumers towards these green initiatives all the organisations are preferring those practices that help to uplift societal well-being.

Research Methodology

The study uses systematic data analysis to show how IT professionals can contribute to green IT strategies and thereby enhance their career growth. For this, 50

respondents were selected. The research relies on existing literature, industry reports, case studies, and academic publications related to green IT strategies, corporate sustainability initiatives, and career development in the tech industry. Sources include peer-reviewed journals, government reports, sustainability frameworks (e.g., ISO 14001, Green IT certifications), and insights from organisations such as the International Energy Agency (IEA) and the Green Electronics Council. Data collection focuses on identifying trends, best practices, and the impact of green IT adoption on both environmental sustainability and professional growth. Comparative analysis is used to examine case studies of companies that have successfully integrated green IT, evaluating how their employees contributed to sustainability while advancing in their careers. In addition, reports from IT firms and tech communities are reviewed to understand emerging roles, skills, and certifications that support green IT initiatives. This methodology ensures a comprehensive understanding of the topic while leveraging credible secondary data sources to provide actionable insights for tech employees.

Data Analysis and Interpretation

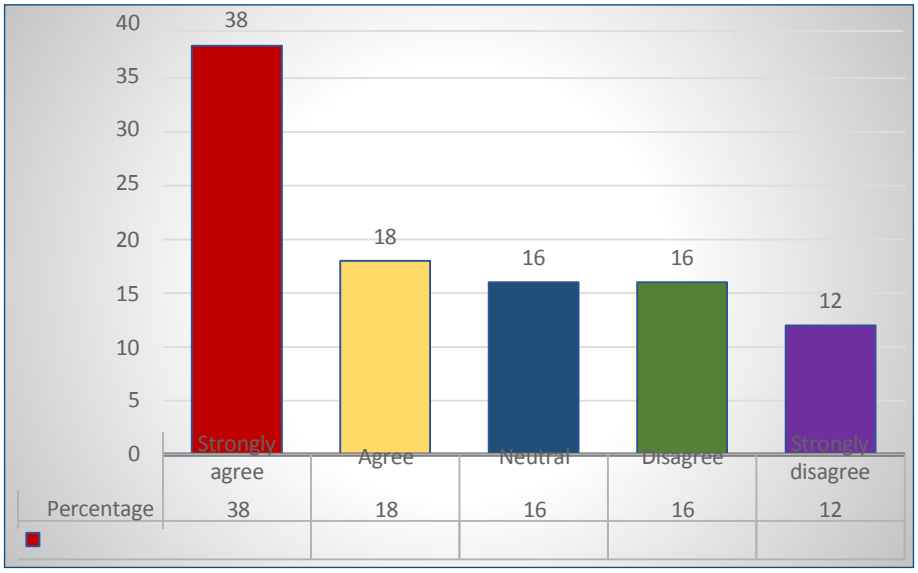

Fig. 1: Knowledge of Green IT Practices that Enhance Your Career Growth

Table 1: Knowledge of Green IT Practices That can Enhance Your Career Growth

Sr. No.	*Attributes*	*Frequency*	*Percentage*
1	Strongly disagree	6	12
2	Disagree	8	16
3	Neutral	8	16
4	Agree	9	18
5	Strongly agree	19	38
	Total	50	100

Out of the 50 respondents 19 (38%) have knowledge of green IT practices that enhance their career growth, 9 (18%) agree that they have knowledge of green IT practices and 6 (12%) strongly disagree with the statement.

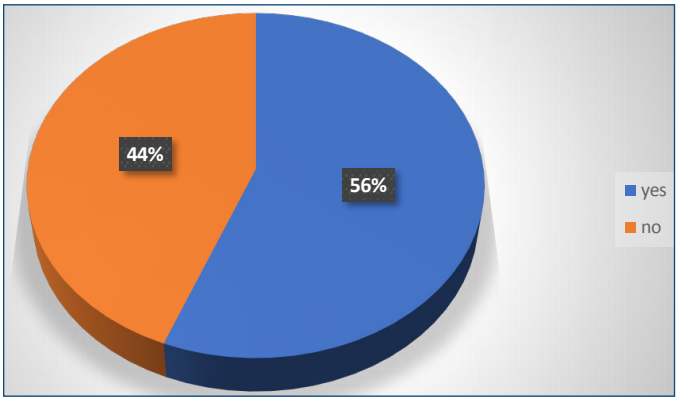

Fig. 2: Interested in a Job Opportunity If the Company Emphasised Green IT Initiatives

Table 2: Interested in a Job Opportunity If the Company Emphasised Green IT Initiatives

Sr. No.	*Attributes*	*No of Respondents*	*Percentage*
1	Yes	28	56
2	No	22	44
	Total	50	100

The respondents were asked whether they were interested in the green initiative strategies of the company. 28 (58%) respondents were interested while 22 (44%) were not interested in these initiatives.

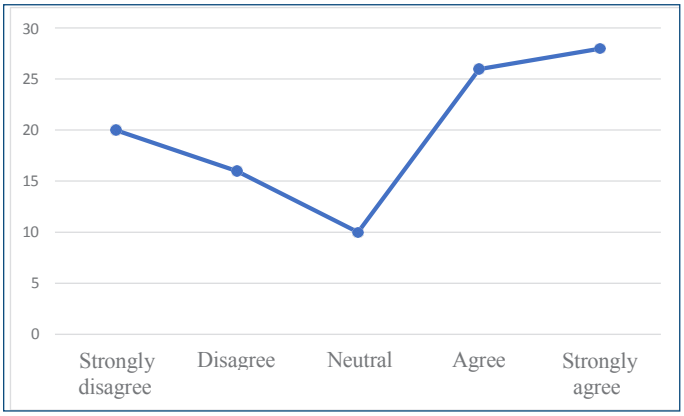

Fig. 3: Green IT Initiatives Increased Employees' Job Satisfaction

Table 3: Green IT Initiatives Increased Employees' Job Satisfaction

Sr. No.	*Attributes*	*Frequency*	*Percentage*
1	Strongly disagree	10	20
2	Disagree	8	16
3	Neutral	5	10
4	Agree	13	26
5	Strongly agree	14	28
	Total	50	100

The results highlight that 14 (28%) respondents are of the opinion that their job satisfaction was increased by the green IT initiatives taken by the institution. 10 (20%) respondents strongly disagreed with the statement that green initiatives increase their job satisfaction.

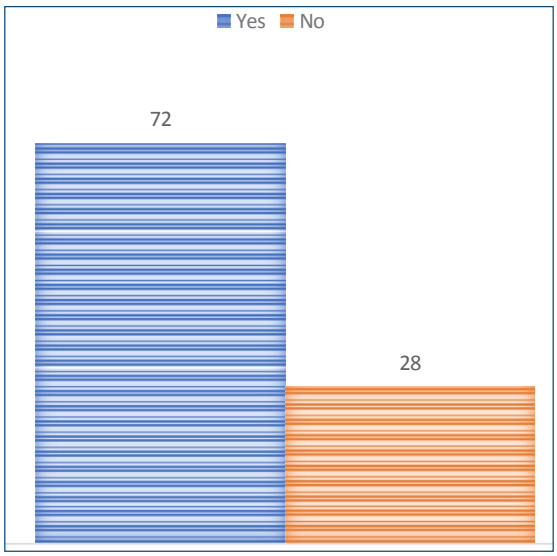

Fig. 4: Adoption of Green IT Strategies Has Improved Energy Efficiency in the Workplace

Table 4: Adoption of Green IT Strategies Has Improved Energy Efficiency in the Workplace

Sr. No.	*Attributes*	*Frequency*	*Percentage*
1	Yes	36	72
2	No	14	28
	Total	50	100

36 respondents (72%) stated that green IT strategies improved their energy efficiency in the workplace and 14 (28%) respondents are of the opinion that they have not improved anything with the use of green initiatives.

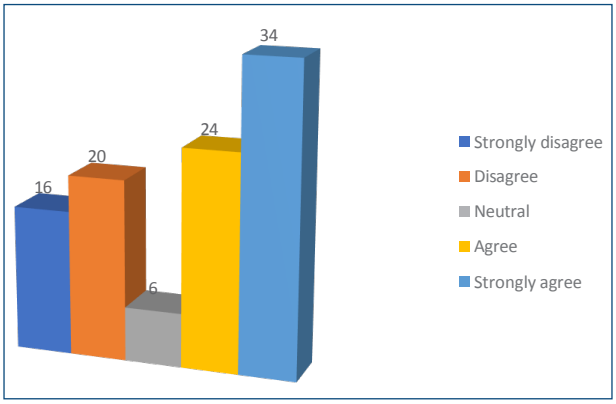

Fig. 5: Green IT Practices Enhance Professional Skills

Table 5: Green IT Practices Enhance Professional Skills

Sr. No.	*Attributes*	*Frequency*	*Percentage*
1	Strongly disagree	8	16
2	Disagree	10	20
3	Neutral	3	6
4	Agree	12	24
5	Strongly agree	17	34
	Total	50	100

The responses show that 17 (34%) respondents strongly agree that green IT practices enhance professional skills; 12 (24%) agree and 3 (6%) were neutral. 10 (20%) disagreed and 8 (16%) strongly disagreed with the statement.

Findings

The study on green IT and career growth found that tech employees who actively engage in sustainability initiatives benefit both the environment and their professional development. Those professionals who use energy-reducing green coding practices and cloud computing and those who are responsible for reducing e-waste management will definitely contribute to reducing the carbon footprint and increasing environmental sustainability. Their skills and talents enhance the company's reputation as well as make them attractive professionals in maintaining eco-friendly practices to achieve CSR goals. This paper also shows that the companies encourage employees to integrate green IT strategies into their workflows. In addition, those who lead sustainability projects such as digital transformation strategies and advocating environment sustainable practices receive recognition, promotion, and sometimes leadership roles. As a result, they are receiving high salaries and thereby can improve their career growth. Finally, the study concludes that those IT professionals who employ their talents with environmental responsibility can contribute to CSR goals and improve their careers in the competitive job market.

Conclusion

As they advance in their professions, IT professionals are essential to the cause of sustainability. They can lessen their influence on the environment by implementing green IT practices, which include supporting cloud-based solutions, optimising software for lower power use, and utilising energy-efficient hardware. Small steps such as turning on power-saving settings, reducing electronic waste, and supporting environmentally friendly corporate practices have a significant impact. In addition to making the world a greener place, these initiatives present staff members as progressive individuals who support international sustainability objectives. Adopting green IT might also lead to new job opportunities. Knowledge of energy-efficient coding, green cloud computing, and eco-friendly technologies becomes increasingly relevant as companies place a higher priority on sustainability. Workers can position themselves for leadership positions, innovation initiatives, and tech careers with a sustainability focus by honing these skills. Tech workers may stay competitive in the changing labour market and have a significant influence by incorporating green IT principles in their daily work.

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