

Innovative Leadership: AI's Impact on Entrepreneurial- Intrapreneurial Thinking



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A Power of One Initiative

Abstract

In today's rapidly evolving business landscape, understanding the nuanced roles of entrepreneurship and intrapreneurship, alongside the transformative potential of artificial intelligence (AI), is essential for fostering innovation and sustainable growth. Entrepreneurship traditionally involves individuals or small teams embarking on new ventures characterized by high risk and investment, driven by the pursuit of novel opportunities. In contrast, intrapreneurship cultivates a similar spirit of innovation within established organizations, where employees, supported by company resources, develop ideas and projects that propel organizational growth.

The integration of AI, particularly generative AI, is revolutionizing both entrepreneurial and intrapreneurial efforts by enhancing productivity, creativity, and decision-making. Generative AI, which creates new content by learning patterns from existing data, empowers entrepreneurs and intrapreneurs to innovate more effectively. Applied AI, focused on solving specific problems within a domain, optimizes processes and improves outcomes, making it a critical tool for modern business leaders.

This article explores seven key AI patterns (automation, augmentation, prediction, personalization, interaction, optimization, and innovation) and their application in entrepreneurial and intrapreneurial contexts. These patterns demonstrate how AI can streamline tasks, enhance human capabilities, forecast trends, tailor experiences, enable natural interactions, improve efficiency, and foster new product and business model creation.

Furthermore, the article delves into regional perspectives on AI adoption, highlighting the unique challenges and opportunities across Africa, Asia, Europe, North America, and Latin America. Each region's approach underscores the diverse ways AI is reshaping industries and societies globally, with a particular focus on enhancing the entrepreneurial and intrapreneurial ecosystems.

Finally, the article emphasizes the symbiotic relationship between AI and innovative leadership, showcasing how the entrepreneurial mindset (characterized by risk-taking, creativity, and resilience) combined with intrapreneurial strategies and AI tools, can drive transformative change. This synergy not only propels business success but also contributes to societal and economic well-being, positioning AI as a cornerstone of future entrepreneurial-intrapreneurial thinking.

Unlocking Innovation: Understanding Entrepreneurship, Intrapreneurship, and the Dual Role of AI

In today's rapidly evolving business landscape, distinguishing between the concepts of entrepreneurship and intrapreneurship, as well as understanding the roles of artificial intelligence (AI) and generative AI, is crucial for leveraging these tools effectively.

Entrepreneurship typically refers to the process where individuals or small teams embark on creating new ventures, often characterized by high risk and investment. These entrepreneurs are driven by the pursuit of innovation, setting the foundation for new businesses and opportunities. In contrast, intrapreneurship involves cultivating a similar spirit of innovation within established organizations.

Intrapreneurs are employees who are encouraged to think and act like entrepreneurs within the company, developing new ideas and projects that can drive the organization's growth. Unlike entrepreneurs, intrapreneurs operate with the backing of a company's resources, including financial budgets, which mitigates some of the risks associated with traditional entrepreneurship.

Artificial Intelligence (AI) plays a transformative role in both entrepreneurship and intrapreneurship by enhancing productivity and fostering innovation. It is essential to differentiate between generative AI and applied AI to fully grasp their impact.

Generative AI focuses on creating new content such as text, images, and music; by learning patterns from existing data. It excels at producing novel outputs that can inspire creativity and innovation. On the other hand, applied AI addresses specific problems or tasks within a domain using techniques like machine learning to optimize processes and improve decision-making.

Seven key AI patterns illustrate how both entrepreneurs and intrapreneurs can utilize AI to their advantage:

1. **Automation:** Streamlining repetitive tasks to free up time for core activities. Entrepreneurs might use AI chatbots for customer support, while intrapreneurs can automate data analysis for quicker decision-making.
2. **Augmentation:** Enhancing human capabilities for better decision-making. Entrepreneurs can leverage AI for market research, and intrapreneurs might use it to refine products based on customer feedback.
3. **Prediction:** Forecasting trends and outcomes for proactive decision-making. Entrepreneurs may predict market demand to adjust production, while intrapreneurs use AI to anticipate risks and develop mitigation strategies.

4. **Personalization:** Tailoring experiences to increase engagement and loyalty. Entrepreneurs can craft targeted marketing campaigns, whereas intrapreneurs might deploy AI-powered recommendation engines.
5. **Interaction:** Enabling natural human-computer interactions. Entrepreneurs might use AI chatbots for support, and intrapreneurs can implement virtual assistants to enhance internal communication.
6. **Optimization:** Improving efficiency and reducing costs. Entrepreneurs could optimize supply chains with AI, while intrapreneurs streamline operations and resource allocation.
7. **Innovation:** Creating new products and business models. Entrepreneurs leverage AI for novel solutions, and intrapreneurs explore AI-driven innovations to disrupt markets and generate revenue.

By harnessing these AI patterns, both entrepreneurs and intrapreneurs can drive growth, foster innovation, and achieve success in their ventures, ultimately shaping the future of business and organizational development.

Continental Perspectives on AI: Challenges and Opportunities by Region

Asia: Balancing rapid technological advancement with ethical considerations is crucial for sustainable AI growth.

Africa: Overcoming infrastructure and skill gaps is essential for harnessing AI's full potential.

Europe: Addressing digital skills shortages is critical to fully leverage AI for digital and green transitions.

The global landscape of AI adoption presents unique opportunities and challenges across different continents.

In Asia, rapid advancements in AI are driving economic growth but also raising ethical concerns, particularly in China and Japan. Africa's journey with AI is marked by significant barriers such as infrastructure limitations and skill gaps, yet countries like South Africa and Nigeria are making notable strides.

Europe focuses on leveraging AI for digital and green transitions, while addressing significant digital skills gaps across the continent.

North America's accelerated adoption of generative AI highlights its innovation mindset and the importance of ethical considerations in AI deployment. Meanwhile, Latin America emphasizes resilience and collaboration, with a strong entrepreneurial spirit driving AI initiatives despite facing substantial societal and infrastructural challenges.

Each region's approach to AI underscores the diverse ways in which this technology is reshaping industries and societies globally.



Africa

AI adoption in Africa is **multifaceted**, influenced by political, gender, and generational challenges. AI integration is limited across the continent, with notable adoption in countries like South Africa, Nigeria, Ethiopia, Kenya, Zimbabwe, Togo, Libya, and Ghana.

Many African nations lack essential elements for technology adoption, including infrastructure, data ecosystems, STEM education, governance systems, and policies.

Significant barriers to AI integration include infrastructure limitations, skill gaps, financial constraints, and policy frameworks.

Political challenges, such as data privacy, security, infrastructure access, and supportive government policies, are crucial to address. Corruption, regulatory uncertainty, state capture, inequality, and inadequate infrastructure further hinder AI initiatives.

Gender challenges in AI include the underrepresentation of women, biases in AI systems, and the potential for AI to empower women economically.

Generational challenges revolve around digital literacy training for older entrepreneurs, higher adoption rates among younger entrepreneurs, and the importance of intergenerational collaboration.

AI can help address political challenges in African countries **by enhancing transparency and accountability**,

improving public service delivery, fighting corruption, optimizing resource allocation, and supporting economic growth.

To maximize AI's benefits and minimize its risks, Africa needs a comprehensive AI strategy that promotes inclusive growth, drives global competitiveness, creates job opportunities, and develops solutions tailored to African challenges.

Efforts to promote digital literacy and AI training are essential, fostering inclusive ecosystems, encouraging policy support, establishing data protection frameworks, celebrating AI-driven success stories, and promoting collaboration within and across countries. By addressing these challenges, African entrepreneurs can harness AI's potential to drive growth, innovation, and prosperity.

Entrepreneurs in Africa are using AI to overcome some of these challenges by developing innovative solutions tailored to the continent's unique needs.

For example, AI is being used to enhance agricultural productivity, improve healthcare delivery, and create new financial services that are accessible to more people. Despite the hurdles, the entrepreneurial spirit in Africa is strong, with a focus on creating impactful solutions that can drive economic growth and development.



Asia

AI adoption in Asia presents a **spectrum of opportunities and challenges across its diverse nations.**

In **Japan**, AI is being leveraged to **address critical societal issues** such as an aging population and workforce shortages. This integration showcases Japan's technological prowess and its rapid embrace of innovations, reinforcing its position as an AI leader.

China's AI landscape is characterized by its **dominant role in AI research, development, and application.** Substantial investments and supportive government policies fuel this progress, but China faces the challenge of balancing innovation with ethical considerations and ensuring equitable benefit distribution. India is emerging as a rapidly developing nation with swift AI adoption, paralleling China's technological transformation.

However, **India's** primary challenge lies in **managing the social impacts of AI**, particularly concerning job automation and the necessity for regulatory frameworks to align technological advancement with societal needs.

In **Southeast Asia**, countries like Vietnam and Thailand are **progressing in AI adoption** but encounter hurdles due to nascent infrastructure and limited access to high-quality data. These nations must enhance their technological foundations and develop essential skills to bolster their competitiveness in the AI field.

Similarly, Indonesia and the Philippines focus on enhancing AI capabilities amid

challenges related to data infrastructure and workforce development, working towards building robust AI ecosystems.

Asian countries have undertaken various initiatives to harness AI and address its associated challenges.

Japan integrates AI into its Society 5.0 initiative, aiming to meet social needs through comprehensive AI strategies and support for innovation.

China continues to lead with substantial investments in AI research and development, with national strategies and regulations designed to spur innovation while addressing ethical issues. India accelerates its AI adoption with investments in technology and skills training, while simultaneously grappling with the societal impacts of job automation.

Vietnam and Thailand have launched national AI strategies to boost local businesses and economies, focusing on improving data infrastructure and technological skills.

Collaborative efforts across Southeast Asia aim to build strong AI ecosystems, improve data access, enhance technological infrastructure, and develop workforce skills, with initiatives like the AI Opportunity Fund and Singapore's AI guidelines serving as models.

The **entrepreneurial mindset** in these countries is **evolving**, with AI enabling businesses to tackle large-scale issues such as Japan's aging population and China's ambitious technological

innovations. **Entrepreneurs in these regions are leveraging AI to create new business models and solutions**

that address both local and global challenges.



Europe

Europe stands at a critical juncture, where **digital and green transitions are imperative**. AI is poised to play a significant role in this transformation by identifying risks, opportunities, and enabling innovative solutions.

However, **AI enthusiasm and literacy in Europe are relatively low compared to other regions**. Deloitte's 2024 report indicates that European organizations show less enthusiasm for generative AI, particularly among functional leaders and individual contributors.

Additionally, a significant skills gap exists, with over 30% of the EU's labor force lacking digital skills, and only 54% of people aged 16 to 74 able to perform basic digital tasks. **There is also a shortage of digital experts, with only 20% of ICT specialists and graduates being women.**

Addressing the skills gap is paramount, focusing on digital and green technology and equipping people with the necessary skills for quality jobs and innovation.

Recognizing these challenges, the European Commission launched the European Year of Skills in 2023, emphasizing the need for retraining, upskilling, and reskilling to face current and future challenges and ensure social and workforce inclusion. Investments in AI, cybersecurity, and advanced digital skills are being made to facilitate the use of digital technologies across the economy and society.

Fostering partnerships between humans and machines is fundamental in this complex and volatile world. Innovative leaders and teams must learn to collaborate with machines to solve complex issues more effectively.

As generative AI democratizes artificial intelligence, organizations that adopt an end-to-end AI approach at strategic, tactical, and operational levels will maximize its value.

Unlocking creativity and collective intelligence is key, necessitating investments in technical skills, including digital and power skills, such as communication, problem-solving, collaborative leadership, and critical and strategic thinking. Individual and team coaching and mentoring also have a positive ripple effect.

The **Artificial Intelligence Act, set to take effect in February 2025**, is a milestone in Europe, establishing consistent standards and providing a framework to scale innovation while mitigating risks.

Entrepreneurs in Europe are at the forefront of integrating AI with sustainability initiatives, creating new opportunities for green technologies and improving operational efficiencies.

The emphasis on ethical AI and robust regulatory frameworks supports a responsible innovation culture.

European entrepreneurs are thus empowered to develop AI-driven

solutions that not only drive economic growth but also contribute to societal and environmental well-being.



North America

The adoption of AI in **North America**, particularly **generative AI**, has **accelerated significantly from 2023 to 2024**.

According to a McKinsey Global Survey, only one-third of respondents reported regular use of generative AI in at least one business function in 2023.

By early 2024, this number nearly doubled, with 65% of organizations regularly using generative AI. The biggest increase was seen in marketing and sales, where reported adoption more than doubled to 34%, followed by product/service development at 23% and IT at 17%.

There was also a significant uptick in personal use of generative AI, both at work and in respondents' personal lives, with 55% regularly or always using it by 2024.

These trends correlate strongly with fostering an innovation mindset among entrepreneurs and intrapreneurs.

Increased **AI adoption** across diverse sectors **encourages a culture of experimentation and openness to new technologies**.

Generative AI tools democratize creativity and problem-solving, empowering individuals to explore new ideas, iterate rapidly, and find novel solutions.

Government initiatives and funding for AI research and development signal a

broader societal recognition of the importance of innovation, inspiring individuals to pursue AI-driven ventures within a supportive ecosystem.

North America's robust venture capital ecosystem encourages risk-taking and rewards innovative ideas, cultivating an environment where entrepreneurs are incentivized to push boundaries.

The strong academic research base fosters collaboration between academia and industry, promoting a culture of knowledge sharing and curiosity.

Emphasis on ethical AI promotes responsible innovation, encouraging entrepreneurs and intrapreneurs to consider the societal impact of their creations and build solutions that benefit humanity.

The rapid pace of AI advancements necessitates a willingness to adapt and embrace new technologies.

Entrepreneurs and intrapreneurs actively engaging with AI demonstrate a flexible mindset, open to exploring new possibilities. AI tools enable rapid prototyping and experimentation, fostering a culture of "failing fast" and learning from mistakes, essential for driving innovation. Collaboration within the AI ecosystem, supported by a strong academic research base and thriving venture capital scene, is crucial for generating and refining innovative ideas.

Investing in AI requires a long-term perspective, encouraging entrepreneurs and intrapreneurs to think beyond short-

term gains and focus on building sustainable, innovative solutions.



Latin America

Latin America faces significant challenges, but its **rich diversity and entrepreneurial spirit offer opportunities for AI-driven growth and resilience.**

The region's entrepreneurial spirit allows individuals to harness their talents for sustainable development, benefiting both the region and the global community.

Resilience is a crucial trait in Latin America, especially given the increasing frequency and severity of disruptions, including natural disasters, cyber incidents, and geopolitical risks.

These challenges necessitate resilient strategies and independent entrepreneurship to navigate the uncertainties.

The COVID-19 pandemic has spurred interest in technology as a means to overcome societal challenges.

Enhancing access to technology and improving education through collaborative participation are vital.

UNESCO recognizes the importance of AI in educational environments, emphasizing its potential to determine

students' success and, by extension, the success of entrepreneurs.

Latin American countries are investing in research and study programs focused on AI, productivity, and sustainability, particularly in the field of continuing education.

These initiatives aim to prevent individuals from falling behind and instead advance in productivity while ensuring sustainability.

Collaboration among various actors in the region is essential to address the inter-(intra)preneurial challenges and leverage AI's significant impact.

Ethical governance and responsible regulation of AI are crucial for fostering innovation and economic growth while ensuring a technology ecosystem that benefits the public good.

Entrepreneurs in Latin America are leveraging AI to address critical issues such as disaster response, education, and healthcare.

By embracing these principles, Latin American entrepreneurs can drive growth, innovation, and prosperity, contributing to the global AI landscape.



Voice of the community

As artificial intelligence (AI) continues to revolutionize industries, its influence on entrepreneurial thinking and leadership is becoming increasingly significant. The ability of AI to drive innovation and enhance decision-making processes has captured the attention of leaders across the globe. Our survey reveals how AI is reshaping leadership practices and driving organizational success.

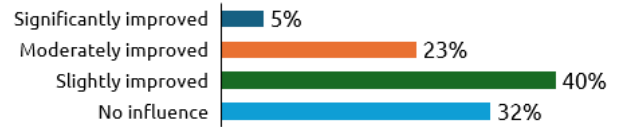


Chart 1: Influence of AI on Decision-Making Process

AI Adoption and Impact

AI adoption varies across organizations, with many using a limited number of AI tools. Despite this, AI is making a positive impact on decision-making, innovation, and risk management. Respondents generally reported improvements in these areas, indicating that even minimal AI integration can yield substantial benefits.



Chart 3: AI's Impact on Risk Management Approach

Training and Challenges

AI training remains inconsistent, with many organizations offering only basic or no training. Key challenges in AI implementation include integrating AI with existing systems, a shortage of expertise, and data privacy concerns. Addressing these issues is critical for maximizing AI's potential.

Future Outlook and Competitive Advantage

There is strong optimism about AI's future role in shaping entrepreneurial thinking. Many respondents believe AI will play a major role in driving future business success. AI is also seen as providing a competitive advantage, though the extent varies among organizations.

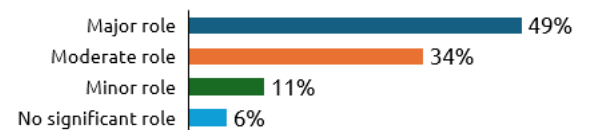


Chart 4: Role of AI in Entrepreneur Thinking

Key Takeaway:

AI: The Innovation Engine Powering Leadership Excellence

AI is increasingly recognized as a catalyst for innovation and improved leadership. Effective use of AI can enhance decision-making, drive creativity, and provide a competitive edge. The ability to harness AI's potential is crucial for leaders aiming to stay ahead in today's dynamic business environment.

Recommendation:**Boost Entrepreneurial Leadership and Innovation: Embrace AI Training and Overcome Integration Challenges**

To fully capitalize on AI's benefits, entrepreneurial leaders should foster a culture that embraces continuous learning and AI adoption. Implementing comprehensive AI training programs will equip employees with the skills needed to leverage AI tools effectively. Additionally, addressing challenges related to AI integration and expertise will be essential for maximizing its advantages and driving transformative change.



Challenges

The integration of AI into business environments brings numerous challenges that innovative leaders must navigate to leverage AI effectively while promoting ethical and responsible practices.

One of the most pressing challenges is the **stress resulting from the anxiety produced by the unknown**. Simon Dolan and Javier de Pablo highlight that the International Labor Organization considers stress a significant threat to the economies of both industrialized and developing countries. They note, "Productivity is compromised by the effects of stress on the physical and mental health of workers. That is why companies that help their workers manage stress and carefully reorganize the work environment according to skills and aspirations have a good chance of gaining a competitive advantage."

Recognizing the presence of AI beyond entrepreneurial environments, it becomes crucial to acknowledge the importance of emotional management for effectively handling the stress associated with AI.

Ethical behavior is another critical area of focus. Ethical AI and responsible

innovation require the development of awareness, guiding both professional and entrepreneurial leaders to act for the benefit of humanity.

This ethical consideration ensures that AI applications are designed and implemented with the highest standards of integrity and social responsibility.

Data security and privacy also pose significant challenges. Generative AI has introduced new possibilities for business leaders and entrepreneurs, but it also brings issues related to data and information security.

Effective data management becomes critical in safeguarding sensitive information and maintaining trust with stakeholders.

Having access to resources is vital. Organizations and entrepreneurs must navigate the challenge of securing various types of resources necessary for specialized knowledge related to the use and ethical development of AI.

This access is crucial for staying ahead in the rapidly evolving AI landscape.

The "Recommendation on the Ethics of Artificial Intelligence," drafted by

UNESCO and adopted in 2021 by 193 countries.

This recommendation aims "to ensure that AI obeys fair, sustainable, and inclusive outcomes."

The recommendation is based on the "protection and promotion of human rights, human dignity, and sustainability, and these values are translated into principles such as accountability, transparency, and privacy."

Innovative leadership in the AI era requires a multifaceted approach that addresses stress management, ethical behavior, data security, resource accessibility, and adherence to international guidelines.

By navigating these challenges thoughtfully, entrepreneurs can harness AI's potential to drive growth, innovation, and positive societal impact.



Advantages

AI also presents several advantages that innovative leaders can harness to foster growth and positive impact:

Strengthening Power Skills as Leaders Skills

Communication, problem-solving, strategic and analytical thinking, as well as collaborative and innovative leadership, are essential for creating spaces where AI can be present, used, and developed for the benefit of society.

These power skills are critical in navigating the complexities of AI and ensuring that its implementation aligns with organizational goals and societal values.

Lifelong Learning

AI has brought with it an invitation to embrace continuous learning. Lifelong learning is now a necessity, as the rapid evolution of AI technologies requires leaders and their teams to constantly update their knowledge and skills. This commitment to ongoing education

ensures that organizations remain competitive and innovative.

Responsible Innovation & Social Impact

AI serves as a powerful catalyst for entrepreneurship, driving responsible innovation and creating a global positive social impact. By focusing on responsible AI practices, leaders can develop solutions that address pressing societal issues while fostering sustainable business growth. This approach ensures that AI innovations contribute to the greater good, benefiting communities worldwide.

The Power of Diversity

The results and benefits of collaborative work and leadership are always greater when diversity is embraced.

The ethical use of AI requires incorporating diverse perspectives and areas of knowledge. This diversity fosters creativity and innovation, leading to more comprehensive and inclusive AI solutions.

By valuing and integrating diverse viewpoints, organizations can develop

AI technologies that are equitable and beneficial for all.



Call to Action

Leaders can effectively harness the power of AI to drive innovation, enhance productivity, and create a positive social impact, ultimately fostering a thriving culture of entrepreneurship and intrapreneurship by applying these lessons:

Cultivate Collaborative Leadership: Strengthen a culture of innovation by fostering collaborative leadership. Encourage teamwork and create an environment where leaders inspire and support innovation, ensuring that diverse perspectives contribute to the creative process.

Prioritize Lifelong Learning and Skill Development: Invest in continuous personal and professional development to unlock your potential. Embrace lifelong learning to stay updated with new technologies, and develop essential power skills such as strategic thinking, communication, and problem-solving to drive successful projects.

Embrace Ethical AI Practices: Commit to ethical AI use by upholding principles of accountability, transparency, and privacy. Develop a strong understanding of AI ethics and integrate these values into decision-making processes to ensure that AI applications contribute positively to society.

Leverage Data and Technology Wisely: Ensure that your data is accurate, complete, and well-managed to maximize AI's effectiveness. Align AI initiatives with core business values and explore how AI can solve specific problems or enhance existing products and services. Use AI tools for risk management, task automation, and optimizing resources.

Foster an Innovative and Inclusive Culture: Build a culture that values diversity and inclusivity, leveraging collective intelligence to tackle complex challenges. Encourage curiosity and experimentation with AI technologies, and create an environment where ethical considerations and long-term goals guide AI-driven innovation.

Cultivate
Collaborative
Leadership.

Prioritize Lifelong
Learning and Skill
Development.

Embrace Ethical
AI Practices.

Leverage Data
and Technology
Wisely.

Foster an
Innovative and
Inclusive Culture.



Conclusion

In an era where AI increasingly permeates our lives, the relentless march of progress continues unabated.

The challenges we face and the solutions we seek are as diverse as the contexts in which we operate. AI stands out as a powerful catalyst for entrepreneurship, reshaping how businesses and individuals approach their work.

By automating routine tasks, AI frees up valuable time for employees, executives, and managers, allowing them to focus on tasks that demand critical thinking and creativity. This shift fosters more productive and collaborative environments, whether within organizations or in professional settings.

Each region is advancing at its own pace, navigating its unique set of challenges and opportunities with AI. Despite these differences, a common thread of innovative leadership emerges. Across continents, leaders are embracing collaborative approaches to harness AI's

potential, recognizing the profound impact of collective intelligence. This global movement towards integrating human and artificial intelligence underscores a shared commitment to enhancing the quality of life.

The convergence of human ingenuity and AI promises to drive transformative change. As entrepreneurial ideas evolve into tangible projects, and these projects reshape our world, we witness the remarkable synergy between human creativity and AI's capabilities.

The journey we are on highlights the greatness of humanity as it leverages AI to turn visionary ideas into realities that positively transform our environments. The lessons learned here affirm that, with thoughtful integration and collaborative leadership, AI and human potential together can create a future that benefits us all.

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