Golden Era for Artificial Intelligence Start-Ups

Roshini Jasmin
Narendra H.M.
CMR University
(roshini.17phd@cmr.edu.in)
(narendra.h@cmr.edu.in)

Artificial Intelligence, the emergence of new technologies has enabled to create a breakthrough for the new revolution. It is creating a new phase of intensive deep learning in data-drive, swarm intelligence, augmented intelligence. This paper examines the how the corporate and startups work together its opportunities and challenges and in the context of sustainability for the implementation that takes a different perceptive on industry sectors. The AI innovators is scalability than sustainability, the Enterprise giants use this, are in transforming the talents into AI and intelligent systems. Customization on new segments of market for specific market and introducing the new leaders. These innovators transfer solutions to enterprises to large and proprietary data training sets, domain knowledge that gives them deep insights into the opportunities within a sector. Finally, this paper is the adaption of start-ups in the corporate sector and how this is a golden period for most of incubators in advanced technology.

Keywords: Artificial Intelligence, Entrepreneurship, Corporates, Startups, Innovation

1. Introduction

Industrialization started with first machines that mechanization, steam power and water and steam power that our ancestors practiced. In the second era, we had electricity a boon which transformed to a birth of rapid production. Then advent the computers that brought in transformation became an advent for automation in replacing workforce in the third revolution of development. Now we are to enter a new world of Industry revolution in Artificial Intelligence, in which bridge with computers and automation in an altogether a new way, the robotics connected remotely the computer systems with integrated machine learning algorithms that relate to robot and with minimum human support. Artificial Intelligence (AI) accentuates the progression of insight machines thinking and working like individuals. For instance discourse acknowledgment critical thinking learning and arranging many contend that AI or machine. (SAEED, 2017).Artificial intelligence revolves around algorithms. An algorithm of calculations is a lot of unambiguous directions that a mechanical PC can execute. Numerous AI calculations are fit for gaining from information; they can upgrade themselves by adapting new heuristics. The easiest approach to AI was symbolism. Learning algorithms work on the procedures, calculations, and inductions that worked honorably in the past are likely going to continue working outstandingly later on. The early tasks neglected to get away from the confinements of non-quantitative representative rationale models and extraordinarily thought little of the trouble of cross-area AI. These days, most by far of momentum AI specialists work on tractable "thin AI" applications. An american author and a scientist, John McCarthy was one of the founder and termed as artifical intelligence. The progress of this slowed down in 1974 due to the criticism but in 1980s it revived with the commericalization or with Industry-3 revolution. The new entities or start-ups are different from corporation and regardless of whether there are points of confinement to the market strength and extension of these advanced juggernauts. (Michael A. Cusumano, 2019). Managerial and business people in this digital period must figure out how to live in two universes—the regular economy and the stage economy. Platforms that work for business purposes generally exist at the degree ofan industry or ecosystem, uniting people and organization so they can improve and connect in manners not generally conceivable. Platforms make economical incentive a long ways past what we see in traditional organizations.(Michael A. Cusumano, 2019). Many Entrepreneurs takes a pragmatic approach to solve their problems. They identify a problem where they think their skills and resources are difference, and they dive in with an optimism that they can do it, rallying others to their cause as they go." (Gerdeman, 2019) In the book of Karen Mills it states how there is a bright future of small business. (Lagace, 2019) also states that small business is a key to economy, reduce it barriers and friction by its innovation which can be more helpful to thrive. Digital Transformation is key word of every organisation and it also a threat to many of them who are not ready to unlearn and learn. It provides an endless opportunities for companies but it is a key factor to reimage the business and the who are the customers and how these digital technology are implemented. (Gupta, 2018).AI has exceptionally savvy associated frameworks that make a completely computerized worth chain. This is arrangement on digital physical creation frameworks which can incorporate interchanges, innovation, IT, information, and physical components, wherein these frameworks supplant the customary units into brilliant industrial facilities. Here the point is that to change the way the machines pass on to different machines and convey progressively bringing about fast change in the biological system, for few as well as for the whole mechanical divisions. AI creating with such an amazing pace now and then it appears to be mystical there is a supposition among specialists and designers that ai could develop so hugely solid that it would be hard for people to control. AI creating with such an amazing pace now and then it appears to be mystical there is a supposition among specialists and designers that AI could develop so hugely solid that it would be hard for people to control. The Threat to Privacy, it perceives discourse and comprehends common language is hypothetically fit for seeing every discussion on

messages and phones. Danger to human nobility has it previously began supplanting the people in barely any businesses. It ought not replace individuals in the segments where they are holding honorable positions which are about morals, for example, nursing specialist judge, etc. It is a Threat to Safety so relentless than people that could be hard to prevent from accomplishing their objectives which may prompt unintended results. The manufacturing industry is a foundation of national economy, individuals' job, and national security. The profound combination of manufacturing technology with Big Data, intelligent technology, and product-related ability, and item related skill specifically, is empowering a game-evolving transformation about fabricating models, manufacturing approaches, and its ecosystems.
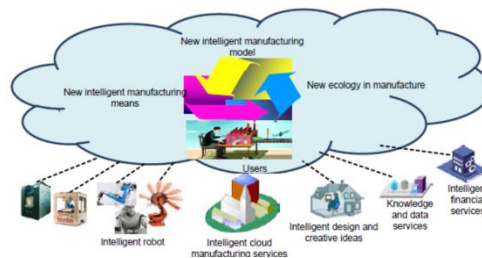

Figure 1 *New Models, Means, and Forms of Intelligent Manufacturing (Bo-hu LI1)*

2. Revolution and Business Strategy in Corporates using Intelligent Technology

The corporate giants like Google, Amazon, Apple, and major tech company are dedicating their resources to achieve a major revolution in artificial intelligence. Some products like Alexa and Siri are part of our life as the personal assistants. The revolution like self-driven car is not in reach but their lot of research and trial done by major companies. The study states that corporate are a disruptive convergence of digital technologies that going to reform the manufacturing beyond imagination, in the availability of data volumes, connectivity in system integrations, advent of analytics and advanced intelligence ability in machine learning. The organization have tough time in growing a business and scaling a company further solving several challenges which are mostly with the organizations. Many companies are designing systems and processes, which evolves in new hire. This leads to the company's hierarchy, often leading to new tiers of management, operational procedures, and management workflows. This will change in-house and external communication, the company morale and scalability of these people. The companies believe that it is very important to have the intelligent model and the specialized methods by which new data and correspondence technology, savvy science and innovation, enormous assembling innovation (planning, design, management and testing), system building innovation, and related item innovation are coordinated with the entire framework and lifecycle of item advancement. The existence cycle of assembling hence uses self-sufficient detecting, between association, cooperation, learning, examination, cognition, basic leadership, control, and the execution of human, machine, material, and natural information to empower the combination and enhancement. AI technology helps the development of new models, means, and forms, system architecture, and technology systems in the domain of intelligent manufacturing (Li, 2016). SAP is one association that has redone its way to deal with sponsorship programs. Understanding that their innovation can improve live occasion encounters, they lead sponsorship programs in which their information gives ongoing investigation to competitors, fans, and proprietorship the same, so improving the in-game understanding from all edges. This new way to deal with sponsorship is displayed in the association among SAP and the NHL. Chris Foster, Director of Digital Business Development at the NHL clarifies, "Together, we've handled a hundred years of NHL measurements, however the fate of how NHL information is gathered, dissected, and exhibited to fans the world over. We have tried in-game player and puck following innovation, which can possibly change the manner in which fans expend the game, the manner in which supporters convey experiences to our spectators, and the way players, mentors, and establishments gauge and investigate execution. (Hendricks, 2018) While corporate sponsorship programs are developing progressively imaginative, one certainty remains: they are as yet determined by cash to a degree. For instance, the current year's Academy Awards corporate supporters included Rolex, Swarovski, and Walmart - all brands with profound enough pockets to purchase their way into Hollywood's greatest night. It may appear as though developing organizations and new businesses have no chance to contend with Fortune 500 enterprises for sponsorship spots basically in light of the fact that they don't have the income. And keeping in mind that a startup like Betterment most likely can't go head to head with Capital One, there are various ways they can adjust themselves to significant shopper occasions.

Innovation based development is changing our general surroundings at a quick pace. Advanced intelligent are including the truly necessary for Fourth Industrial Revolution by making the general exchanges progressively consistent, mechanized, profitable and productive. All organizations should be aware of this newly discovered dexterity and viability to explore through the present aggressive market. Utilizing these front-line advances in manners by which business benefit is improved, will be fundamental to continue in the time of computerized change. (Global Head). The Robotic Automation is going through a massive shift, in hospitality, Food industries and many more sectors. Though Robot and AI are two separate things. Robotics involves in building robots whereas AI involves in programming intelligence for robots. AI goes together with Robotics automation. Speed brings something new to the table when we discuss innovation. The five most valuable companies in the year 2000 – General Electric, Exxon Mobil, Pfizer, Citigroup, and Wal-Mart are no longer among the top

10. Today's top five are new companies like Amazon, Google, Apple, Tencent, and Microsoft (Thorsen, 2019). Most of the successful organization have a clear and bold vision for their growth and it is cascaded to all. This helps all employees to be focused towards the purpose.

Enterprises have been taking IoT as a key empowering agent to drive computerized change and to open the operational efficiencies. Advances in Artificial Intelligence combined with pervasive network, and continuous correspondence are empowering exponential development in efficiencies produced by IoT. As machines it speaks with one another with no human intercession, the genuine estimation of information is improving and quicker basic leadership, prescient investigation, and automation. India is as of now coordinating the pace in adjusting new innovations like IoT, 5G, AI and cloud to drive new plans of action. Indian Government has acquainted different arrangements and activities with influence advantages of these troublesome advancements in different parts. Many new companies in India are additionally using these advances to make new and imaginative plans of action. Through this paper, we have endeavored to diagram the eventual fate of IoT, from business potential and innovation perspective, and its effect alongside other rising advances, for example, 5G, Artificial Intelligence, Digital Twin, Edge Computing, Immersive User Experience, and so forth on different areas, for example, producing, utilities, transport and coordination's, agribusiness, oil and gas and brilliant urban communities. We are happy to be the information accomplices with FICCI for the principal release of IoT Summit on "Changing business through innovation interruption" in Rajasthan. This is a restrictive stage for partners from the administration and enterprises to work together on the choice of these troublesome innovations.   (Rahul Rishi, 2019). AI are molding our lives and upsetting the customary organizations at a pace of progress never found in the history. Empowered by exponential increment in figuring force and accessibility of huge measure of information, machines are quick figuring out how to supplant people in a few regions. This "insight" is moving endlessly from focal server ranches into gadgets and things that will before long become a piece of our regular daily existences. These gadgets will possibly arrange their own particular manner in our reality by means of "shrewd agreements" and with no critical human intervention India is quick jumping the organization of rising innovations. India offers a chance to convey these rising innovations at a huge scale to bring efficiencies and economies of scale. More up to date openings and biological systems are building up each day. The Government of India is finding a way to push the appropriation of rising advancements with imaginative activities, for example, Digital India [1], Make in India [2], Smart Cities [3], etc. It is our pleasure to dispatch the principal release of IoT Summit on "Changing organizations through innovation interruption". This summit is conceptualized to talk about on the innovation disturbance in the present time and where it is enabling us in the future. FICCI is committed to work closely with the government, industries and different sectors so as to put Rajasthan and the nation at large in a bright spot. We are glad to provide a platform for collaboration of stakeholders from different industries to develop a new solution for India's future.
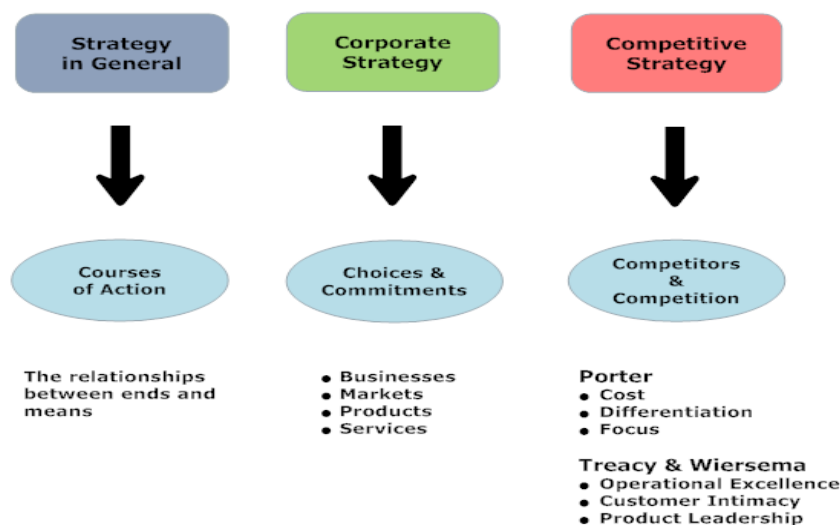

Figure 2 *Business Growth-Strategy*

3. Global scenario of AI

Global Artificial Intelligence represented $15.70 billion out of 2017 and is relied upon to reach $300.26 billion by 2026 developing at a CAGR of 38.8% during the gauge period. Rising interest for smart menial helpers, improve operational effectiveness in assembling industry and increment in execution of cloud-based applications and administrations are a few elements affecting the market development. Be that as it may, abnormality of man-made brainpower calculations is confining the market It is related to human knowledge with related attributes, for example, language getting, investigation, learning, critical thinking and others and it is arranged at the center of the cutting edge programming innovations in the market. Google, IBM, Microsoft, and other driving organizations have powerfully executed AI as a basic piece of their advances. By innovation, PC vision section is relied upon to develop at the most elevated CAGR because of the expanding

execution of PC vision in independent and semiautonomous applications in various businesses, for example, producing and car, is fueling the development of this portion in the AI advertise.

Among topography, Asia Pacific rules the worldwide market during the conjecture period. In this district, the development of the market is changed because of high registering force, parallel handling, and quick upgrades in data stockpiling limit. A portion of the key players in Artificial Intelligence showcase incorporate Rockwell, Samsung Electronics, Facebook, Intel, Google, Cisco, Microsoft, Oracle, SK Hynix Inc., IBM, GE, Siemens, Mellanox Technologies, IRIS Automation, General Vision, Sentient Technologies, Micron Technology, Descartes Labs, Twitter. Rising interest for insightful remote helpers, upgrade operational productivity in assembling industry and increment in execution of cloud-based applications and administrations are a few components affecting the market development. Nonetheless, anomaly of computerized reasoning calculations is limiting the market.

Computerized reasoning is a knowledge set up by machines, rather than the normal insight showed by people and different creatures. Computerized reasoning-based frameworks fundamentally show up as a discovery information is nourished in one end and the outcome is yielded from the other, with no real way to check how the framework went to its choice. It is related to human insight with related attributes, for example, language getting, investigation, learning, critical thinking and others and it is arranged at the center of the cutting-edge programming advances in the market. Google, IBM, Microsoft, and other driving organizations have progressively executed AI as a basic piece of their advances.

By innovation, PC vision section is relied upon to develop at the most noteworthy CAGR because of the expanding usage of PC vision in self-ruling and semiautonomous applications in various enterprises, for example, fabricating and car, is fueling the development of this fragment in the AI advertise.

Among topography, Asia Pacific overwhelms the worldwide market during the figure period. In this area, the development of the market is changed because of high figuring force, parallel preparing, and quick enhancements in data stockpiling limit. Created nations, for example, the US and Ger-numerous specifically, have drafted imaginative procedures and strategies on clever assembling, the 'Propelled Manufacturing Partnership Plan' (2011) and 'Modern Internet' (2012) in the US, and the 'Business 4.0 Plan' (2013) in Germany. In 2012, GE in the US proposed the idea of 'Mechanical Internet', which can work with savvy hardware, individuals, and information and investigate such information in an astute way to empower more intelligent basic leadership by people and machines. The three significant segments of the Industrial Internet are smart gear, wise frameworks, and keen decision-production. The Industrial Internet might be viewed as the dissemination among, and communication between, information, equipment, programming, and insight. It can store, break down, and envision information **obtained** through intelligent gear and systems for last canny basic leadership dependent on insightful data. The maximal capability of the Industrial Internet will be acknowledged through the all-encompassing reconciliation of the three segments—keen gear, shrewd systems, and insightful choices—with machines, hardware sets, offices, and framework systems (Evans and Annunziata, 2012). In 2013, Germany propelled its Industry 4.0 arrangement, where the vital thought of 'one center, two subjects, three-dimensional mix, and eight plans' is proposed, with extraordinary accentuation on clever factories and keen creation as the 'two significant topics' for investigate. Digital physical framework (CPS) systems and the development of journalist intelligent hardware frameworks turned into its principle concerns. In Industry 4.0, shrewd assembling systems can see and screen enormous information progressively, created during the time spent generation, and acknowledge savvy investigation and basic leadership in order to change creation mode into clever manufacturing, cloud-end community oriented assembling, and client customized creation, and understand the mix of more creation factors in a more scientific way. The quintessence of Industry 4.0 is to realize the 'clever processing plant' considering the 'digital physical framework'. Creation gear will implement continuous detecting by coordinating diverse sensors with exact procedure control through the system and information. For generation the executives, a progression of innovations will be received, which will establish a help cloud and furnish physical gear with data recognition, organize correspondence, exact control, and remote coordination abilities (Drath and Horch, 2014; Lasi et al., 2014; Wang, 2015; Ivanov et al., 2016).

Clearly the advancement of technologies, businesses, and applications in savvy manufacturing turned into the principle worry in every nation's vital arrangement. Both the US and Germany are in driving situations about their vital plans. CPS-based shrewd assembling innovation in Germany has carried out achievement results, and Industrial Internet based astute assembling innovation in the US has likewise achieved introductory results. Germany centers around the examination of underlying advancements for makers, for example, smart detecting, remote sensor systems, and CPSs, while the US organizes the IT innovations on the top layer, for example, distributed computing, huge information, and augmented reality (Lee et al., 2015; Posada et al., 2015). The canny assembling ventures in Germany and the US have started to come to fruition with the advancement of clever assembling framework devices and stages, for example, the modern Internet stage Predix created by GE in the US and the computerized cloud administration stage Sinalytics worked by Siemens in Germany. Four center elements of Predix incorporate security observing of organized resources, modern information the board, mechanical information investigation, and cloud applications and portability, which associate a wide range of mechanical gadgets and providers to the cloud, giving resource execution the executives and tasks enhancement administration. Siemens' Sinalytics stage can give security interchanges and the mix and examination of a lot of machine-created information, improving seeing and streamlining abilities through information investigation and input for gas turbines, wind control generators, trains, structures, and medicinal imaging frameworks. Intelligent Internet items, for example, the savvy Internet motor created by GE, can work with air ship motors to control frameworks. Sensors will accumulate information from the motor during its flight and transmit it to the ground for savvy examination with the goal that motor activity conditions can be unequivocally

recognized and blames can be anticipated to incite proactive support, the security and administration life of the motor (Yang, 2015; Li, 2016; Winnig, 2016).

4.   Corporate Sponsor

Enterprises major factor is speed that transforms the market. It is very important to present your product or services with high efficiency and simplicity to be scalable. The new model of each enterprises are Big DATA, IoT, Artificial Intelligence, Augmented reality, and Machine learning as a key empowering agent to drive computerized change and to open the operational efficiencies. As a traditional sector, it faces lot of challenges to adopt to the advancement and need of the revolution. In today's world there are two sectors are you a disruptor or disrupted, it very important for an organization to have innovation to remain in the market. The AI technology is already part of today's innovation and AI.2. is getting ready for another revolution. The key factor for being a corporate sponsor, is to adapt to the latest technology and implement these into the product range to remain in the market. Due to the size of the organization, sometimes it becomes difficult to deliver a product that can scale in the market. The corporate sponsor is beneficial for both enterprise and start-ups. Anna Thorsen (Thorsen, 2019) tells the benefits of being a Corporate Sponsor are:

1. Interesting research and idea
2. Innovation, new tech, etc.
3. Hackathons; Competitions
4. Industry focus reflects an upcoming or future project
5. Social responsibility
6. Branding on new media or platform
7. Large event sponsorships
8. Crunchy culture, art, new hot tendencies, etc.
9. Hosts, stars, experts, influencers, etc.
10. Market penetration or expanding, reaching new target groups
11. Positive brand exposure
12. Tax deductions
    Benefits of being a Start-up:
13. Material support (could be one or many cash contributions, grants)
14. Assumptions of an old debt
15. Donation (Be cash given by an organization to a non benefit association · financing a particular task or occasion frequently feasible endeavors network centered · products names tickets marked materials · hardware · blessings · support as time capacity work)
16. Goods (labels, tickets, branded materials)
17. Equipment
18. Gifts
19. Support (in the form of time, ability, work)
20. Space (work or event space)
21. Services (volunteering, favoring innovative programs or projects)
22. Networking
23. Co-branding

In today's era, there are lots of platforms to make it successful startups. The key points of interest of accepting corporate sponsorships are in the planning help comes precisely when required and consequently the startup has one duty to show or make reference to the support's image during the procedure. Most of the enterprise, give back to the society by sponsoring positive affiliation. For example, an association which is careful about the prosperity of our planet can sponsor a Planet Earth Protection Program began by a neighborhood startup (Rainforest Alliance, Save the frogs, Wildlife security), a festival at a public venue close by, an instructive organization, or convey supplies for a nearby reasonable identified with the prosperity of nature. Numerous associations are recognizing the requirement for corporate social obligation (CSR) and discover shared belief with littler associations. Subsequently, they join endeavors and collaborate on different events and occasions. The support tries to advance its image by communicating altruism and graciousness to the necessities of others. Meanwhile, the association which is helping the occasion gets an increase in believability by imparting the phase to huge organizations by collaborating with them. (Thorsen, 2019).

5.   Key insights: Future Trends of AI 2

In view of the profound incorporation of AI 2.0 technology, producing science and innovation, in-development correspondence science and innovation, and assembling application innovation in the assembling business, this exploration centers around the pursue parts of canny assembling application advances:

1. General innovation of technology manufacturing frameworks, including clever assembling structure innovation, SDN organize framework system innovation, air-space-ground incorporated framework system innovation, plans of action of astute assembling administration, endeavor modeling and reproduction innovation, framework improvement, application and execution innovation, intelligent producing security innovation, canny assembling evaluation innovation, and wise assembling institutionalization innovation.

2. Intelligent Manufacturing Technology: Big data stage innovation and smart assembling based system innovation, Internet of Things, virtualization and administration technology; development/the executives/evaluation technology for intelligent assistance; the board, analysis and mining of canny information/model/enormous information; innovation for clever man-machine connection; swarm insight plan innovation; dependent on large information and gigantic information; man-machine cross breed intelligent production innovation of autonomous basic leadership; with online help and remote help.

3. Keen plan, generation, the board, examination, support, and other key advances involved in the whole hover of astute assembling, including: shrewd cloud development structure technology, cloud creation hardware innovation, intelligent cloud activity and the executive's technology.

Development of the intelligent assembling industry and smart interconnected items are to be analyses. With respect to intelligent assembling empowering instruments, the accompanying examination should be directed: intelligent modern programming including framework programming, stage programming, and application programming, just as astute equipment that supports structure, creation, test, and confirmation, including smart material, keen sensors, wise hardware, wise robots, new-age wise system gadgets, administration situated SDN control stages, and new system assessment frameworks. Keen manufacturing frameworks should be created and worked on various layers, workshop, smart plant, and smart industry, to help inventive assembling models, including process assembling, discrete intelligent manufacturing, arranged synergistic assembling, and remote diagnosis and maintenance services. (Cremades, 2019) (Agarwal, 2019)intelligent manufacturing units.

6. Conclusions

In this paper we have investigated the relationship between corporate and startups. The results show that it is a golden era for all new idea that can be realistic and be first in the market. The blooms behind the number of start-ups are a platform to present an idea and to work differently. The major players of startups are employees from the corporate sector. The study states that the management hierarchy does not allow thinking out of the box. Though many corporate in recent days have stepped up a separate group or a cell like innovation hub, to share the ideas of the employees. It lacks transparency and trust among the traditional management sector, which still follows favoritism or acceptance to advancement in technology. Most of the cases, these incubators do not supply an entire product range or services. They only concentrate on a solution-based services, method, and part of a software. For example, JIRA tool and processes are from the Atlassian, this company vision is to help unleash the potential of every team(https://www.atlassian.com/company, n.d.). This tool caters to different sectors like medicial, space, deliver sector and so on. This shows the ablility of software that have reached every sector and created a revolution.

Speed is the mantra of future and efficiency or customization for each sector. There is major transformation in manufacturing and automobiles sectors. From the point of view of application technology, industry advancement and application show, we propose the research direction for the use of AI 2.0 in the keen assembling industry. The application of intelligent technology includes the manufacturing framework, air-space-ground coordinated framework system innovation, plans of action of savvy fabricating administration, undertaking modeling and reproduction innovation, framework advancement, application and usage innovation, intelligent producing security innovation, smart assembling evaluation innovation, and insightful assembling institutionalization innovation. The development in artificial intelligence framework on various layers, more research on how these will affect the market.

The corporate sponsor more start-ups, because it helps them to accelerate and be scalable in market. This helps them to implement new product using the latest technology and provide a platform for employees to get new skills. It is challenging to train the entire employees with the latest technology, many would resist to learn, job security and in these processes, it is not possible to deliver in speed and efficiency. Whereas for incubator this opportunity allows them to be to leader for their product or services and remain aligned with the corporate sector. This supplies funding, space, technology for R&D and this enables them to create a brand and marketing their solutions or products.

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