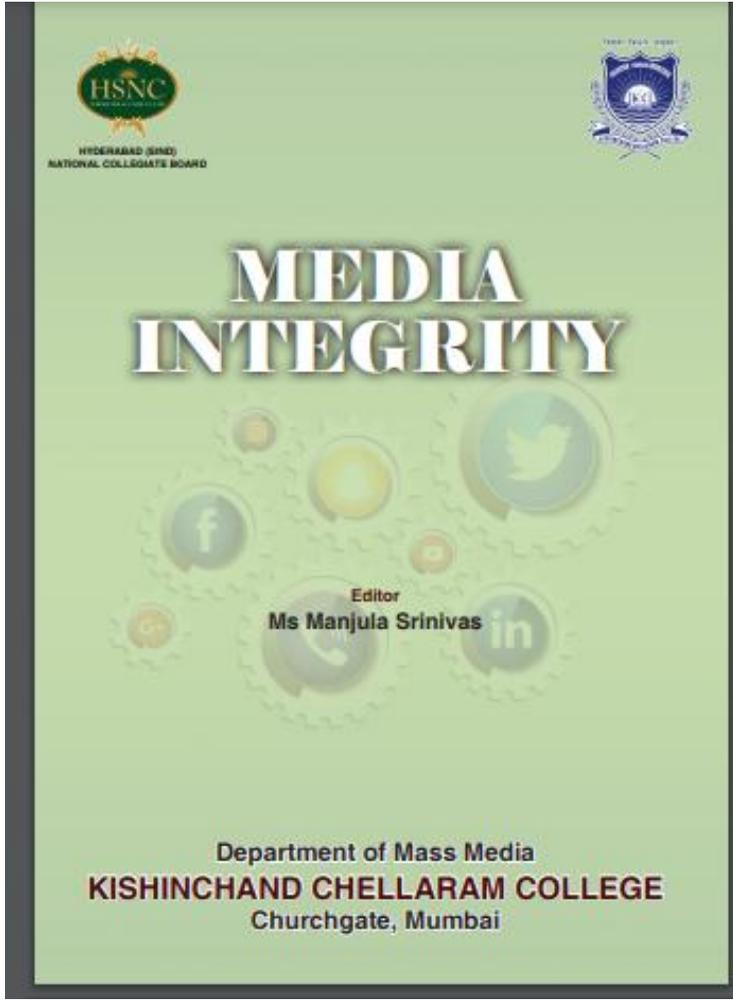


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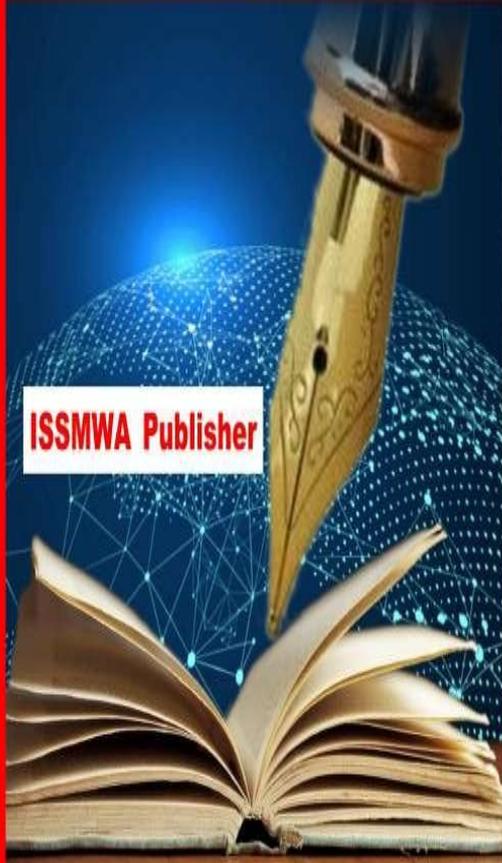



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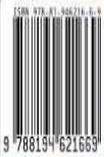
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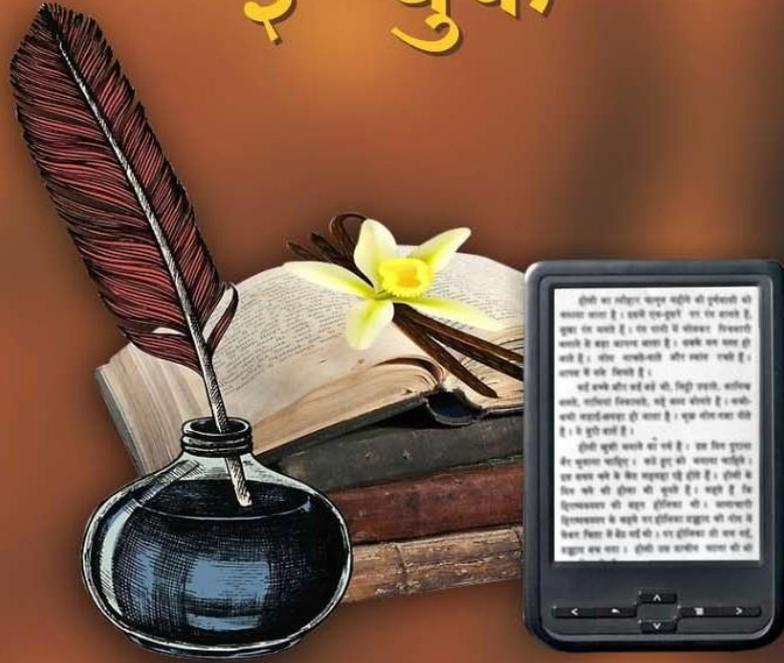


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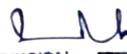
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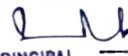
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Review of Modi Government Policies

Since-2014



**Dr. Ghuge Sunil Balu
Dr. Abhishek Sharma**


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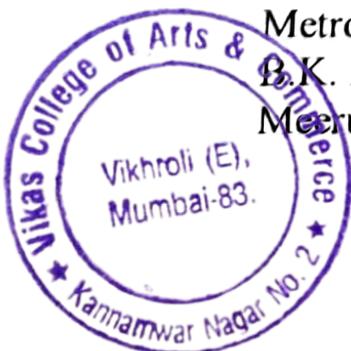
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Chapter-1

Review of Modi Government Policies Since-2014

Dr. Vinay P. Raut

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A) **Demonetization**

Concept

Demonetization is defined as the process of stripping the legal status of a currency unit as a legal tender. In simple terms, the demonetized notes no longer serve as a valid legal currency unit which in turn is replaced by new currency unit/s gradually.

Background

Our Honorable Prime Minister of India Mr. Narendra Modi declared the demonetization of Rs. 500 and Rs. 1000 currency notes on 8th November, 2016. Accordingly, a consecutive time period of 2 months was provided by the Government of India in order to deposit all the demonetized notes in any bank.

Past Instances

1. Demonetization of Rs. 1000 and Rs. 10000 currency notes (then under circulation) by the Reserve Bank of India in 1946.
2. Introduction of new Rs. 1000, Rs. 5000 and Rs. 10000 by the Government of India in 1954.
3. Demonetization of Rs. 1000, Rs. 5000 and Rs. 10000 currency notes (in order to restrict illegal transactions and anti-social activities) by the Morarji Desai Government in 1978.

Objectives

1. Retrieval of black money which unnecessarily bloats the fiscal space of the government.



2. Absolute blockage of all sorts of financing to the terrorist organizations.
3. Reduction in counterfeit currency notes and restriction of anti-social/miscreant activities.
4. Reduction in cash transactions as well as initiation of less-cash economy thereby, facilitating the need for carrying out digital transactions.

Aftermath

Most of the above mentioned objectives were accomplished to a greater extent. More than 99 % of all the demonetized currency notes had been returned to the banking system. However, the Reserve Bank of India (which had provided the approval for demonetization) stated 'majority of the black money is held not in cash but in the form of real sector assets such as gold or real estate and this move (Demonetization) would not have a material impact on the assets as such'.

B) Swachhh India

Background

The government of India has continuously strived to attain better levels of sanitation, hygiene and cleanliness throughout our entire country by means of effective as well as efficient Waste Management and Disposal practices in order to rigorously facilitate a clean and healthy environment in the rural and urban areas thereby, improving the health of the entire populace. Therefore, our Honourable Prime Minister of India Mr. Narendra Modi initiated the 'Swachh Bharat Abhiyan' on 2nd October, 2014 to further propagate the vision of Mahatma Gandhi. It is managed by the Ministry of Housing and Urban Affairs in the urban regions and the Ministry of Drinking Water and Sanitation in the Rural Regions.

Scope and Objectives

It is a national level cleanliness-drive campaign initiated by the government of India in order to promote awareness of cleanliness amongst the population of the entire country. It is aimed towards achieving the following objectives P.A.N. India:

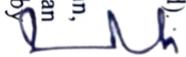
1. Daily Cleaning of Roads and Streets.
2. Construction of hygienic Sanitary Facilities like Bathing Areas and Rest Rooms {in order to completely eliminate the practice of open defecation}.
3. Deploying cost-effective Health and Sanitation Programs in the rural areas.



4. Proper segregation as well as disposal of waste (Liquid and Solid).

Performance Evaluation

In order to measure the success of Swachh Bharat Abhiyan, performance evaluation is carried out by the Swachh Survekshan (commissioned by the Ministry of Urban Development and carried out by the Quality Council of India) based on the following parameters :



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1. Processing as well as disposal of municipal solid and liquid waste.
2. Provision of public and community toilets.
3. Extent of elimination of open defecation.
4. Extent of awareness and behavioral change amongst the people.

Aftermath

A majority of citizens especially in the rural areas have been provided with proper waste processing and disposal/drainage systems, appropriate bathing and lavatory facilities and adequate drinking water supply. There has been a good amount of reduction in pollution as well as rates of lethal disease, mortality and health expenditure which in turn have contributed towards cleaner and greener India.

C) Make in India

Background

India of the past has long been associated with inspector raj, red tapism as well as extremely tedious and cumbersome rules and regulations thereby, retarding the overall establishment as well as growth of business. Therefore, the need for delicensing, deregulation and radical transformation has become the need of the hour. India is the only country in the world which has democracy, demographic dividend and demand. Thus, our Honorable Prime Minister of India Mr. Narendra Modi in September, 2014 launched the 'Make In India' campaign in order to develop our country as a global manufacturing hub by means of facilitating good, effective and easy governance and ease of doing business as well as amending the respective labor laws. It is managed by the ministry of commerce and industry.

Objectives

1. Increase in growth rate of manufacturing sector by 12 % to 14 % per annum.
2. Creation of additional 100 million jobs in the manufacturing sector by the year 2022.
3. Absolutely enhance the contribution of manufacturing GDP to 25 % by the year 2025.

3



Scope

On account of the 'Make In India' initiative, the present government of India would diligently focus on developing key physical infrastructure as well as a robust digital network in order to strengthen the position of India as a global manufacturing hub by providing one-size-fits-all solution with a strong focus on exports by virtue of export incentives as well as cheap labour across the following sectors:

<i>Automobile</i>	<i>Electrical</i>	<i>Mining</i>	<i>Roads and Highways</i>
<i>Aviation</i>	<i>Electronics</i>	<i>Oil and Gas</i>	<i>Space and Astronomy</i>
<i>Biotechnology</i>	<i>Food Processing</i>	<i>Pharmaceutical</i>	<i>Thermal Power</i>
<i>Chemicals</i>	<i>Information Technology</i>	<i>Ports and Shipping</i>	<i>Textiles and Garments</i>
<i>Construction</i>	<i>Leather</i>	<i>Railways</i>	<i>Tourism</i>
<i>Defense</i>	<i>Media/ Entertainment</i>	<i>Renewable Energy</i>	<i>Wellness/ Healthcare</i>

Aftermath

Various feasible outcomes such as fostering innovation, enhancing skill development, facilitating investment, protecting intellectual property/s and building best-in-class manufacturing infrastructure have been meticulously achieved. Notable multi-national companies have been encouraged to manufacture their products in India as well as incentivize with respect to dedicated investments into manufacturing.

D) Digitalization

Background

India is one of the most prominent and gradually growing digital markets by virtue of plummeting costs as well as ever-increasing availability of smart as well as robust networking connectivity. However, a very wide digital gap is also prevalent on account of the adoption of digital technology being quite uneven amongst the core business sectors across our country. Thus, our Honorable Prime Minister of India Mr. Narendra Modi launched the 'Digital India' campaign in order to develop secure and stable digital infrastructure as well as deliver government services digitally all across our nation. This nation-wide campaign is managed by the ministry of electronics and information technology in conjunction with the ministry of finance.



Digital Adoption Index

Digital Adoption Index (D.A.I.) of a country is evaluated on the basis of foundation as well as availability of digital services there in:

<i>Country</i>	<i>D.A.I. {as of 2017}</i>	<i>D.A.I. Growth {since 2014}</i>
<i>United States</i>	<i>67</i>	<i>30 %</i>
<i>Russia</i>	<i>64</i>	<i>44 %</i>
<i>Japan</i>	<i>64</i>	<i>43 %</i>
<i>Germany</i>	<i>61</i>	<i>44 %</i>
<i>China</i>	<i>47</i>	<i>45 %</i>
<i>India</i>	<i>32</i>	<i>90 %</i>

India has achieved a record-breaking D.A.I. growth of 90 % since 2014 by virtue of the various efforts undertaken by the government of India in the public sector as well as the diverse technological innovations achieved by the private sector.

Scope

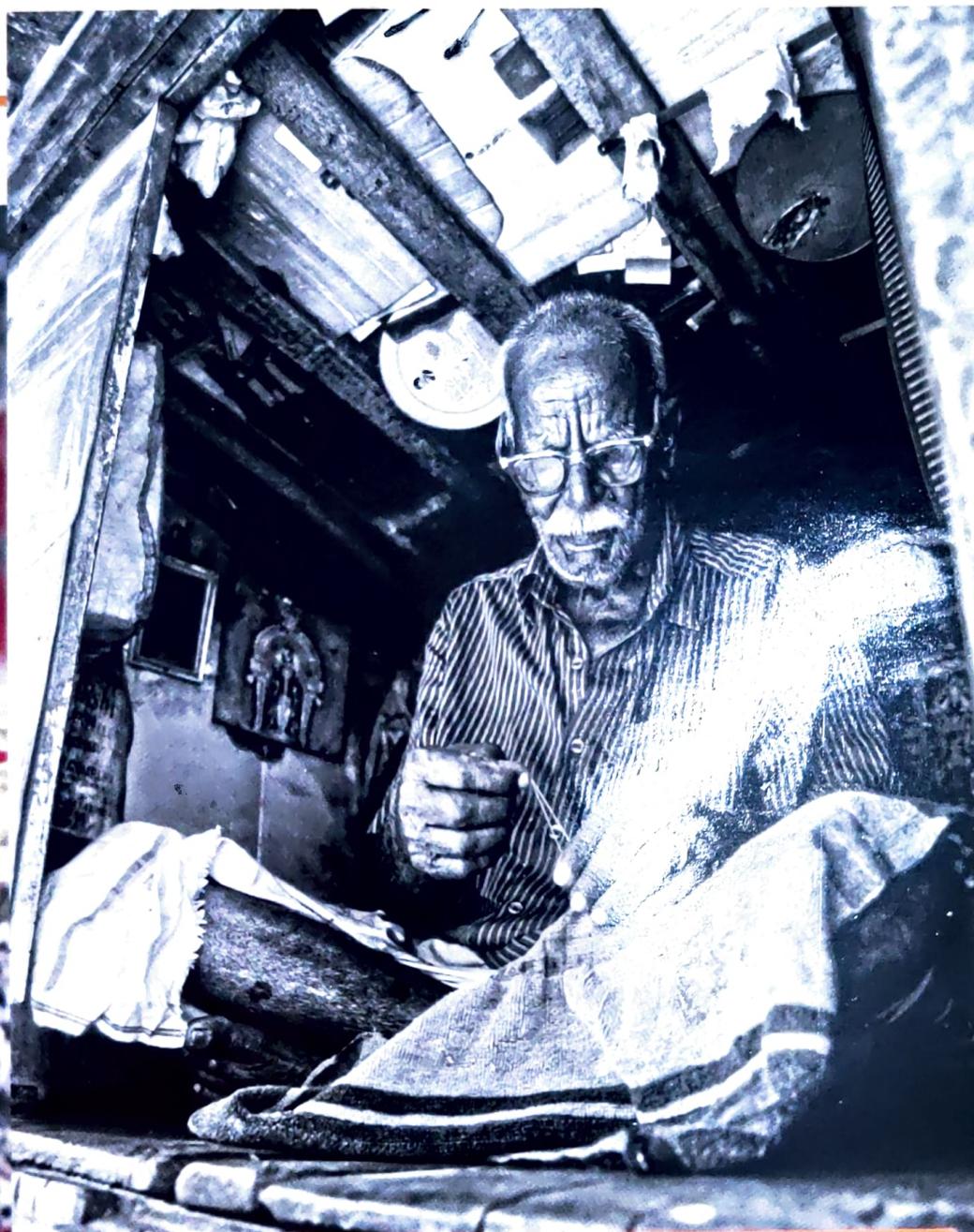
All the business leaders, government officials and individual citizens must efficiently synchronize with each other and function as an integrated unit in order to derive maximum benefits from digitalization and also minimize the pangs of migrating towards a digital economy. Digitalization aims towards building intelligent digital ecosystems which possess the inherent capability to connect, automate and analyze at the macro as well as micro levels across the following business sectors in India:

<i>Finance</i>	<i>Healthcare</i>
<i>Energy</i>	<i>Logistics/Supply Chain</i>
<i>Education</i>	<i>Government Services</i>
<i>Agriculture</i>	<i>Information/Communication Technology</i>

Aftermath

Various national as well as multi-national companies all around the globe has recognized the immense potential of Digitalization in India thereby, providing customized tailor-made digital solutions to millions of customers as per the respective unique operational circumstances prevalent across India. The core digital sectors have clearly demonstrated the capability to double their G.D.P. by the year 2025. Also, there has been a significant utilitarian improvement in the government Services as well as the efficiency of Job Market in India.





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Editors

Dr. S. THEENATHAYALAN | Dr. MAMTA BRAMBHATT

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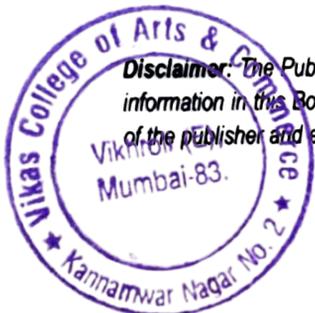
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CHAPTER

18

ARTIFICIAL INTELLIGENCE

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Abstract

Artificial Intelligence is defined as that property of Computer Programs, Machines and Systems which enable them to perform the Intellectual and Creative Functions of a Human Being as well as independently finding new avenues to solve Problems, draw Conclusions and take Decisions accordingly. The Fundamental Objective of Artificial Intelligence is to develop Advanced and Complex Systems that would out-perform Human Beings in practically all spheres of Life thereby, eventually leading to the ultimate perfection of all Human Capabilities and Activities as well as providing better Solutions to the Problems than what Mankind can provide as of now. The first part of the Report thoroughly acquaints us with the basic domain of Artificial Intelligence as well as its Scope and Applications with respect to the present world scenario. The middle part of the Report describes the various Consequences as well as Challenges intrinsically associated with Artificial Intelligence. The last part of the Report deals with the Concepts of Artificial General Intelligence and Super Intelligence as well as the Catastrophic Global Calamities which are inherently associated with them.

Introduction to Artificial Intelligence:

Intelligence comprises of Natural (Human) as well as Artificial Intelligence. It is associated with the utility of general Mental Capability with respect to Solving, Reasoning and Learning in a diverse range of situations. It is integrated with various Cognitive Functions such as Language, Attention, Planning, Memory and Perception.

John McCarthy, the father of Artificial Intelligence (A.I.) defined it as 'A.I. is the Science and Engineering of making Intelligent Machines especially Intelligent Computer Programs'. A.I. executes its inherent set of Operations by virtue of accessing huge amounts of Information, Processing it, Analyzing it and Executing Tasks to solve certain Problems in absolute accordance as well as conformity with its underlying Fundamental Algorithm.



The domain of A.I. is generally classified into the following categories

Reasoning	Programming
Artificial Life	Belief Revision
Data Mining	Knowledge Representation
Expert Systems	Genetic Algorithms
Machine Learning	Natural Language Processing
Neural Networks	Theorem Proving
Constraint Satisfaction	Theory of Computation

Today, A.I. has become an important area of Research in the following fields:

- Engineering.
- Medicine.
- Business.
- Finance.
- Economics.
- Stock Market.
- Law.

A.I. can also be useful in solving critical issues pertaining to Sustainable Manufacturing i.e. Optimization of Energy Resources, Logistics, Supply Chain Management and Waste Management. It can also provide innovative solutions to enhance the Quality and Sustainability of Manufacturing Activities as well as reducing the Costs associated with them.

Therefore, A.I. will be the predominant driving force for the fourth Industrial Revolution.

Scope of Artificial Intelligence:

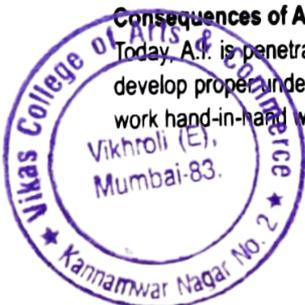
A.I. can be comprehended as the Artificial Representation of the Human Brain which tries to simulate its Learning and Decision-Making Processes with the ultimate Objective of mimicking the Human Brain Power. Thus, it has immense potential to imitate Human Intelligence by virtue of performing various tasks (previously performed solely by Human Beings) that require Thinking, Learning, Planning, Reasoning, Solving Problems and taking Decisions without any Human Assistance or Control as well as without committing any Errors. A.I. Softwares and/or Programs which are embedded into the respective Systems impart them with the necessary Cognitive/Intellectual Attributes as well as Sensory and Decision-Making Capabilities. A.I. has the ability to effectively as well as efficiently perform each and every simple as well as complex Cognitive Task. Therefore, Dependence of Human Beings on A.I. is increasing exponentially day by day.

Applications Areas of A.I. are as follows:

- Aerospace and Defence.
- Business Intelligence.
- Financial Risk Management.
- Cyber Security.
- Genetic Engineering.
- Clinical Trials and Drug Discovery.
- Data Science.
- Computer Vision.
- Speech Recognition.
- Natural Language Processing.

Consequences of Artificial Intelligence:

Today, A.I. is penetrating into our Personal as well as Professional lives on a continuous basis. It is extremely crucial to develop proper understanding of the fact that A.I. cannot completely replace the Utility of Human Beings, provided that we work hand-in-hand with it by rigorously developing our Potentiality and Creativity to the maximum level possible.



The application of A.I. in the Business domain contributes to the enhancement of various sectors such as Finance, Sales and Marketing, Administrative and Technical Activities as well as Customer Service. The current manner in which different Companies grow, compete and drive Business Profitability across the world will be revolutionized by A.I.. In order to tap the infinite potential of A.I. to the maximum extent possible, majority of the Companies in the world are heavily investing in A.I. as well as developing diverse Business Strategies associated with it. Therefore, many Industries across the Earth can benefit immensely from increased Profitability as well as optimum Economic Growth by virtue of successfully implementing A.I. based Solutions.

On account of recent advances in the field of A.I., a very large number of extremely complicated jobs requiring a very high level of Human Intelligence can be comprehensively taken over by A.I.. If A.I. integrated Systems become more faster, reliable and cheaper than Human Beings in many areas of work, this would probably lead to the Labour Market being completely disrupted on a magnitude even greater than that during the Industrial Revolution. Another major drawback to increasing deployment of A.I. Solutions in the Industry would be the rise in Productivity at the expense of increasing Social Inequality to the effect that a rise in the Mean Standard of Living would not co-incide with rise in the Median Quality of Life. Also, the average income for all sorts of Human Jobs which can be completely automated will drastically fall down. Due to the absence of any sort of regulations, the financial status of a huge majority of the global population could sink below mere subsistence level.

In case, A.I. acquires or rather develops the Ability to re-design/re-program its own inherent programming in order to increase its level of Intelligence, it will definitely lead to what we can vaguely term as Intelligence Explosion in the context of A.I.. Another important point to be noted is that Natural/Human Intelligence is strongly associated with Emotions whereas, on the contrary, A.I. lacks emotions completely. Therefore, such a break-through in the domain of AI can affect Humanity in an extremely adverse manner. As long as A.I. Systems absolutely require Human Intelligence to control their (A.I.) Operations, they can assist us with the Tasks and Functions that do not involve Feelings and Emotions. But, considering the immensely rapid pace with which AI is developing, it is highly probable that one fine day, the potential of Artificial Intelligence may far exceed that of Human/Natural Intelligence which in turn would lead to Total Subjugation of Mankind at the hands of A.I.; strictly speaking in the context of the worst-case scenario.

Challenges in Artificial Intelligence:

1. Extremely devastating Race of Arms w.r.t. A.I. based Autonomous Weapon Systems on a Global Scale.
2. High Probability on account of A.I. to compromise the Security Systems of Big Banks and Nuclear Weapon Arsenals using hitherto unknown means thereby, leading to Global Catastrophes/Calamities.
3. Considerable increase in issues related to Control, Privacy, Security and Authenticity within the Global Society.
4. Absolute Dependence of Mankind on A.I. based Technology leading to massive Unemployment, Social Discrimination and Power Inequality worldwide.
5. Complete Disintegration of the foundations of Natural Human Potential on account of A.I. out-performing Human-Beings in all walks of Life.
6. Considerable amount of increase in several Psychological, Physical and Mental Issues pertaining to Human Beings.
7. Maximum amount of Disruption in Finance, Banking, Defence, Educational and Legal Systems as well as Logistics, Transportation and Consumer Services on account of globally implemented Solutions powered by Cognitive and/or Artificial Intelligence Technology.

Artificial General Intelligence and Super Intelligence:

Artificial General Intelligence (A.G.I.) measures the intrinsic Ability of an Artificial Agent to successfully accomplish all of its Objectives in an infinitely wide range of Environments irrespective of any sort of prevailing Contingencies. If an Algorithm superior to Human Intelligence in every way (including Scientific Creativity, Common Sense, Social Competence etc.) is developed, then A.G.I. reaches Super-Human Level (by means of Recursive Self-Improvement) i.e. it becomes Super Intelligence. Thus, A.G.I. can become extraordinarily detrimental/catastrophic, if the ultimate Objectives of the Artificial Agent are not compatible with those of Mankind.

A.G.I. (being a Rational Agent) strives unceasingly towards the accomplishment of its Goals (irrespective of whether they are positive or negative in their respective contexts). As far as the positive context is concerned, A.G.I. can flawlessly

solve countless Problems plaguing Humanity such as War, Disease, Poverty etc. as well as assist us in overcoming the greatest Scientific, Ethical, Ecological and Economic Challenges pertaining to the future. In the negative context, if the Goals of A.G.I. were incompatible with the preferences of Human Beings, then it would amount to an unprecedented existential threat, potentially causing more Suffering than any preceding event in the known history. If the overall Well-Being of Mankind is not in any way associated with the inherent Objectives of A.G.I., then it may lead to the extinction of Humanity as a whole.

Conclusion

The unlimited Opportunities offered by A.I./A.G.I. as well as the enormous Risks associated with it are of a Global Nature. Therefore, transferring Ethical Goals to the Global A.I./A.G.I. System in the very First Attempt becomes our supreme responsibility which is of paramount importance. Even the rarest of the rarest Possibility of a Second Attempt simply does not arise in the context of A.I./A.G.I.. Any sort of Failure/s in doing so shall ultimately lead to the Down-Fall of the entire Human Civilization within a fraction of a second. As a tangible result, A.I./A.G.I. as well as the Benefits and Risks associated with it should be seriously taken up as a Global Priority in absolute conjunction with the Development of Globally Responsible as well as Accountable AI/A.G.I. Systems which are rigorously aligned with Ethical and Moral Human Values.

