The impact of Artificial intelligence in Automation: Job Displacement.

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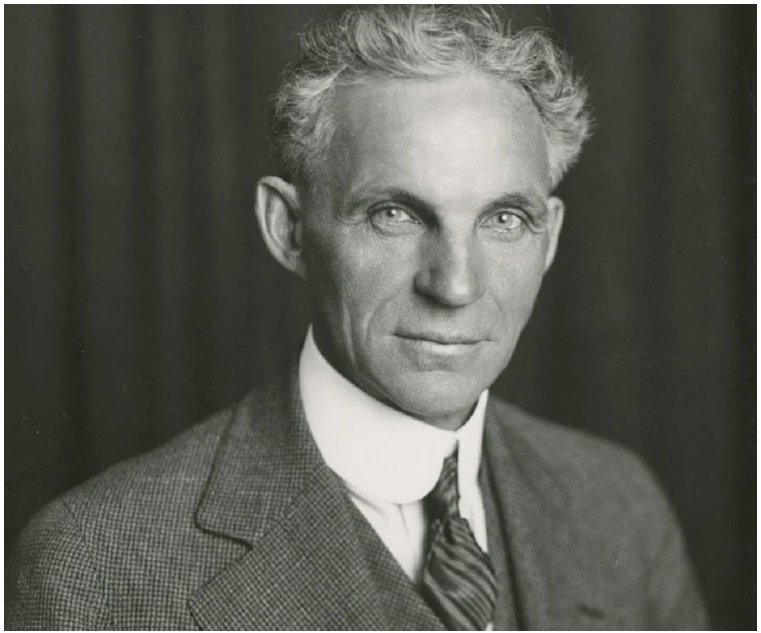
How does Artificial Intelligence impact Job Displacement

1. Automate routine tasks: Data entry, customer service, and some industrial processes are just a few examples of the normal and repetitive operations that AI may automate across a variety of industries, which will eventually lead to the displacement of occupations that require manual, repetitive labour.

2. Enhanced Productivity and Efficiency: While AI can increase productivity, it can also result in job displacement because fewer human workers are required to do the same activities.

Who is Henry Ford



-Henry Ford is a pioneer in the automobile sector, who revolutionized manufacturing techniques, particularly through the utilization of assembly lines. Although Ford's inventions predate the current state of artificial intelligence, they nonetheless have some ideas in common with AI-driven automation.

-Born; July 30, 1863. Died; April 7th 1947

-Invented the moving assembly line method of production to the car industry

How Ford Impacted the world of Automation

- Mass production and efficiency: Ford's assembly line significantly improved production effectiveness, which reduced costs and resulted in lower prices for customers. This emphasis on standardization and efficiency remains a key component of AI-driven automation, as robots and algorithms carry out jobs precisely and consistently. That section of the assembly line can now operate 15% faster thanks to technology, which is a huge increase in the automobile industry where tight profit margins rely largely on manufacturing efficiencies.
- Reduced Dependence on Skilled Labor: Due to the simplification and break-down of activities into smaller steps, Ford's manufacturing techniques eliminated the demand for highly specialized employees. Similar to this, automation powered by AI attempts to simplify procedures and reduce the need for highly specialized talents for routine tasks.

Ford's concepts had a long-lasting effect on production and, in turn, had an indirect impact on the advancement and application of AI technology. Similar to Ford's original plan, modern advanced manufacturing techniques frequently combine AI and robotics to maximize production.

Negative Implications of Automation

- Automation of assembly lines has a major detrimental effect on job displacement. There is a risk of unemployment when computers take over tasks that humans once did, as well as a possibility that wages for displaced workers would stagnate or drop.
- It's important to note the social repercussions. If automation results in considerable job losses, communities that strongly rely on companies using assembly lines may endure economic downturns. Because the gains of automation frequently go to company owners and shareholders while the expenses are absorbed by employees, this may add to inequality.

Negative Implications of Automation

- Increased productivity and efficiency are two key advantages of assembly line automation. Robots and machines are capable of continuous, arduous work, which speeds up production and lowers error rates.
- By assigning risky and physically demanding activities to machines, automation can increase workplace safety by lowering the possibility of worker casualties. This has ethical ramifications because it adheres to the idea of improving workers' wellbeing.

Addressing these implications

A comprehensive strategy is required to mitigate job displacement and encourage ethical AI practices in automation.

- First and foremost, governments and businesses should focus spending on initiatives for reskilling and upskilling the workforce to provide employees the skills they need for the changing employment market.
- Second, there should be set and enforced ethical standards for the use of AI, with an emphasis on openness, justice, and non-discrimination in the use of algorithms and data.

At some point, a compromise between the advantages of automation and its social ramifications must be reached, and this calls for cooperation between governments, corporations, and employees.

Conclusion

In conclusion, there are many different aspects and complexities to the impact of artificial intelligence on job displacement. In addition to increasing productivity and opening up new job opportunities, AI also has the potential to replace employees in a variety of sectors and occupations. A proactive strategy is required to solve the issues brought on by AI-driven job displacement, including reskilling and upskilling initiatives, careful workforce planning, and laws that support inclusivity and income redistribution. To secure a more just and sustainable future of employment, it is essential to balance the advantages and disadvantages of AI in the labor market.

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