

Moreover, AI has also improved economic growth, supporting global trade and finance. As it helps banks detect fraud, manage risks, and provide faster financial services, making economies more stable and strong. For example, stock markets use AI algorithms for high speed trading.

AI also combines large datasets, predictive models and

explainable - AI tools to surface insights, flag risks and recommend actions so humans can make higher quality, faster decisions. ~~eg~~ The first FDA - cleared autonomous AI diagnostic for diabetic retinopathy (IDx-DR) and its pivotal clinical trial demonstrate how an AI system can provide screening decisions in primary care with strong performance.

Furthermore, AI has created individualized learning paths, diagnoses gaps in knowledge, and adapts content / timing to maximize student progress and retention.

The adaptive - learning company Squirrel AI (Vixue) has been profiled in academic and business case studies documenting large scale, personalized adaptive learning deployments and measurable student progress.

In addition to, AI has also improved transportation with the passage of time as it optimizes

routes, predicts demands, improves fleet utilization and safety. As it is ~~hence~~ evident by The UPS's

ORION route-optimization program (analytics (AI) that cuts delivery costs and optimizes routes at scale.

AI being a game changer has also strengthened cybersecurity. As it has the ability to learn normal network/behaviour patterns, detects anomalies or novel attacks in real time, and can autonomously take mitigations to contain threats faster than manual teams alone.

Commercial platforms such as Darktrace's Autonomous Response use machine learning to detect unusual behaviours and initiate targeted containment actions.

Moreover, AI has vastly contributed to environmental protection by producing environmental systems, optimizing energy use, forecasting hazards (floods, fires),

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and improves resource allocation to reduce emissions/waste.

According to the Case study, DeepMind's ML System for Google data-centers reduced energy used for cooling by up to $\sim 40\%$ through predictive control which is a clear demonstration of AI cutting real energy consumption.

No doubt that AI has majorly contributed to Customer-Service revolution by automating routine inquiries, personalizing responses, triages complex issues to humans and scales conversational support while tracking satisfaction metrics. Bank of America's Erica virtual assistant is a major example of automated, personalized services that handles billions of interactions, improving accessibility and operational efficiency in retail banking.

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Thus, AI is not only a technological advancement but ^{is} also competing globally by amplifying productivity and innovation. It has become a decisive factor in shaping economical growth and national security. According to the World Trade Organization, nations leading in AI adoption will enjoy accelerated GDP growth, while lagging regions risk widening technological and economic gaps.

To conclude the above arguments, Artificial Intelligence (AI) has enormously contributed to multiple fields including automation of work, medical, and economic growth. In addition ~~to~~ it has also ~~ex~~ enhanced decision making, smart education, improved transportation, and strengthened cybersecurity. Moreover providing environmental protection, AI ~~has~~ is globally competing in various areas and has been a game

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changer since last two decades, especially since the early 2000s when machine learning, big data, and cloud computing enabled its rapid progress. Given its rapid evolution, Artificial Intelligence will continue to be a game changer in the coming decades, reshaping global economies and redefining the human lives, work, and compete a global scale.
