

# Pros and Cons of Artificial Intelligence

## 1. Introduction

## 2. Understanding the term Artificial intelligence

## 3. Pros of Artificial Intelligence

a. reduced the majority of human error.

\* Case Study: AI powered autonomous vehicles reduce accidents

b) takes risks instead of humans in various dangerous tasks

Case Study: AI detected Potential hazards

c) Provides us with digital assistance.

Case study: AI provides round the clock assistance.

d) Delivers the result in a faster way than humans would

Case study: AI analyzes financial reports 90% faster than humans

e) Provides insight of the user's data

Case study: AI analyzed user data, weather patterns, improving forecast accuracy by 30%.

f) Detected diseases with maximum accuracy

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Case study: AI analyzed medical data and identified cancer treatment with 90% accuracy.

#### 4) Cons of Artificial Intelligence

a) Replacing majority of mundane tasks with robots and computers

Case study: Automation of mundane tasks using AI at global consulting firms

b) Losing the ability of humans to think rationally

Case study: Research by the university of Pennsylvania ~ 75% people lack ability of critical thinking

c) Vulnerable to adverse cyberattacks

Case study: 90% of AI systems are vulnerable to adversarial attacks (~ MIT report 2019)

d) Unclear decision making Process

Case study: 70% of AI systems lack transparency in decision making Process ~ (Accenture Report 2019)

e) Contributes to energy consumption and e-waste

Case study: Training AI models consume 284kWh of energy ~ 16,000 hrs of TV watching (Nature 2019 Report)



## e) Way Forward: Immense Potential of AI in Future

- a) Increased AI adoption in industries like healthcare, finance and transportation
- b) More focus on AI ethics
- c) Expanded use of AI in skill development

## f) Conclusion: