

ARTIFICIAL INTELLIGENCE (AI)

Presented By:
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PRESENTATION AGENDA ...

1. Self Promotion;
2. Japanese Health Care System;
3. History of AI;
4. What Is AI?
5. How Does AI Work;
6. Advantages/Disadvantages;
7. The Abuse of AI Technology;
8. How Bad Are AI Data Centers;
9. Closing Argument; and
10. QUESTIONS/ANSWERS.

1. SELF PROMOTION ...

- ⦿ There was no Internet when I was studying Artificial Intelligence (AI) in the late 1980s;
- ⦿ It survived because AI didn't depend on the Internet;
- ⦿ The Internet mainly makes modern AI easier to **train**, **distribute**, and **access**; and
- ⦿ Those days AI programs ran on individual computers mainly on mainframes and the knowledge was stored on hard drives or on magnetic tapes, etc.

2. SELF PROMOTION ...

- Japan was actively developing Rule-Based (Expert System) **Artificial Intelligence Medical Diagnostic Systems** in the late 1970s and especially during the 1980s which was fundamentally different from today's Machine-Learning AI; and
- I studied Japan's Medical Diagnostic System with the focus on the use of an Expert System for my theses.

3. JAPANESE HEALTHCARE SYSTEM ...

- Japan has one of the most technologically advanced healthcare systems in the world, including significant use of AI and robotics (VIDEO);
- TITLE: WOULD YOU TRUST THIS?
- SOURCE: AI MED X REVOLUATION
- TIME: 5:48
- [Japan's Robot Hospital is REVOLUTIONIZING Healthcare with AI](#)

4. HISTORY OF AI ...

- Artificial Intelligence has evolved from simple rule-based programs into powerful systems that can learn from data and generate new content; and
- Its history reflects the rapid development of computing, data, algorithms, and machine learning, and AI continues to develop rapidly today.

5. HISTORY OF AI - VIDEO ...

- Title: HISTORY OF ARTIFICIAL INTELLIGENCE
- Source: DAVID CARTESE – STEM EDUCATION
- Time: 2:52 Minutes
- [HISTORY OF ARTIFICIAL INTELLIGENCE - YouTube](#)

6. WHAT IS AI? ...

- AI is technology that enables computers and machines to perform tasks that normally require human intelligence;
- AI can learn from data, recognize patterns, understand language, solve problems, make predictions, and support decision-making; and
- It is used in many areas, including **healthcare, education, science, business, transportation, and everyday digital services.**

7. WHAT IS AI? ...

- ◉ A VIDEO:
- ◉ **Title:** WHAT IS ARTIFICIAL INTELLIGENCE?
- ◉ **Source:** LEARN BRIGHT
- ◉ **Time:** 5:21 MINUTES
- ◉ [What Is AI? | Learn all about artificial intelligence - YouTube](#)

8. HOW DOES AI WORK? ...

- AI works by learning patterns from large amounts of data using mathematical models;
- During training, the AI analyzes examples and adjusts its internal parameters to recognize patterns and relationships; and
- When given new information, it uses what it has learned to make predictions, generate responses, solve problems, or perform tasks.

9. HOW DOES AI WORK? ...

- ◉ A VIDEO:
- ◉ **Title:** HOW DOES IT WORK?
- ◉ **Source:** SIMPLE THINGS – SURPRISING HISTORIES
- ◉ **Time:** 6:24 MINUTES
- ◉ [How AI Really Works \(No Math, Just Logic\)](#)

● ADVANTAGES AND DISADVANTAGES

10. ADVANTAGES & DISADVANTAGES ...

- ◉ A VIDEO:
- ◉ **Title:** ADVANTAGES & DISADVANTAGES
- ◉ **Source:** Legend to Hero
- ◉ **Time:** 2:10 MINUTES
- ◉ [Advantages and Disadvantages of AI](#)

11. THE ABUSE OF AI TECHNOLOGY ...

- Abuse of AI refers to using artificial intelligence for harmful, unethical, or illegal purposes;
- Examples include spreading **misinformation and deepfakes, creating scams and fraud, invading privacy, cyberattacks, manipulating people, and generating harmful or discriminatory content**;
- AI can also be misused to automate wrongdoing on a large scale; and
- Therefore, responsible use, strong regulations, and human oversight are important to reduce its risks.

12. THE ABUSE OF AI TECHNOLOGY ...

- ◉ A VIDEO:
- ◉ **Title:** THE ABUSE OF AI TECHNOLOGY
- ◉ **Source:** BBC NEWS
- ◉ **Time:** 4:23 MINUTES
- ◉ [Arrests over AI-generated child abuse material | BBC News](#)

13. HOW BAD ARE AI DATA CENTERS?...

- AI data centers can have significant environmental impacts;
- They use large amounts of **electricity and water, produce greenhouse-gas emissions, and generate heat and electronic waste;**
- Their impact depends on how the electricity is produced and how efficiently the data center operates; and
- Overall, AI data centers can be harmful to the environment, but renewable energy, efficient cooling, and better hardware recycling can reduce their impact.

14. HOW BAD ARE AI DATACENTERS? ...

- ◉ A VIDEO:
- ◉ **Title:** HOW AI DATACENTERS WORK AND WHY AI IS DRIVING THEIR GROWTH
- ◉ **Source:** AP ARCHIVE
- ◉ **Time:** 1:38 MINUTES
- ◉ [Introducing Devin Desktop](#)

15 CLOSING ARGUMENT ...

- A VIDEO:
- **Title:** THE TURBULENT ERA OF AI IS HERE
- **Source:** BILL GATE
- **Time:** 1:52 MINUTES
- [The turbulent era of artificial intelligence is here](#)

🎯 QUESTIONS/ANSWERS

- ◎ Japan developed an unusually systematic medical-screening culture before today's AI revolution: examine broadly, measure quantitatively, automate repetitive testing, compare results over time, and detect disease before symptoms become serious.
- ◎ That philosophy is remarkably compatible with AI. AI didn't create Japan's diagnostic-data culture; it arrived after decades of building the infrastructure and habits that make AI-assisted diagnosis useful.