

Artificial Intelligence (AI)

A humanoid robot with a white, featureless face and a grey, segmented body is seated on a row of blue plastic chairs. The robot is positioned in profile, facing left, and is holding a laptop on its lap. It is sitting on the first chair of a row that extends into the distance. The background is a large window looking out onto a city skyline with various buildings under a hazy sky. The overall scene is dimly lit, with the primary light source coming from the window.

Shaping Our World, One Algorithm at a Time

Presented for ITI Students

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A decorative element on the left side of the slide consisting of four vertical bars of increasing height from left to right, colored in a dark purple shade.

The topics we will discuss in AI

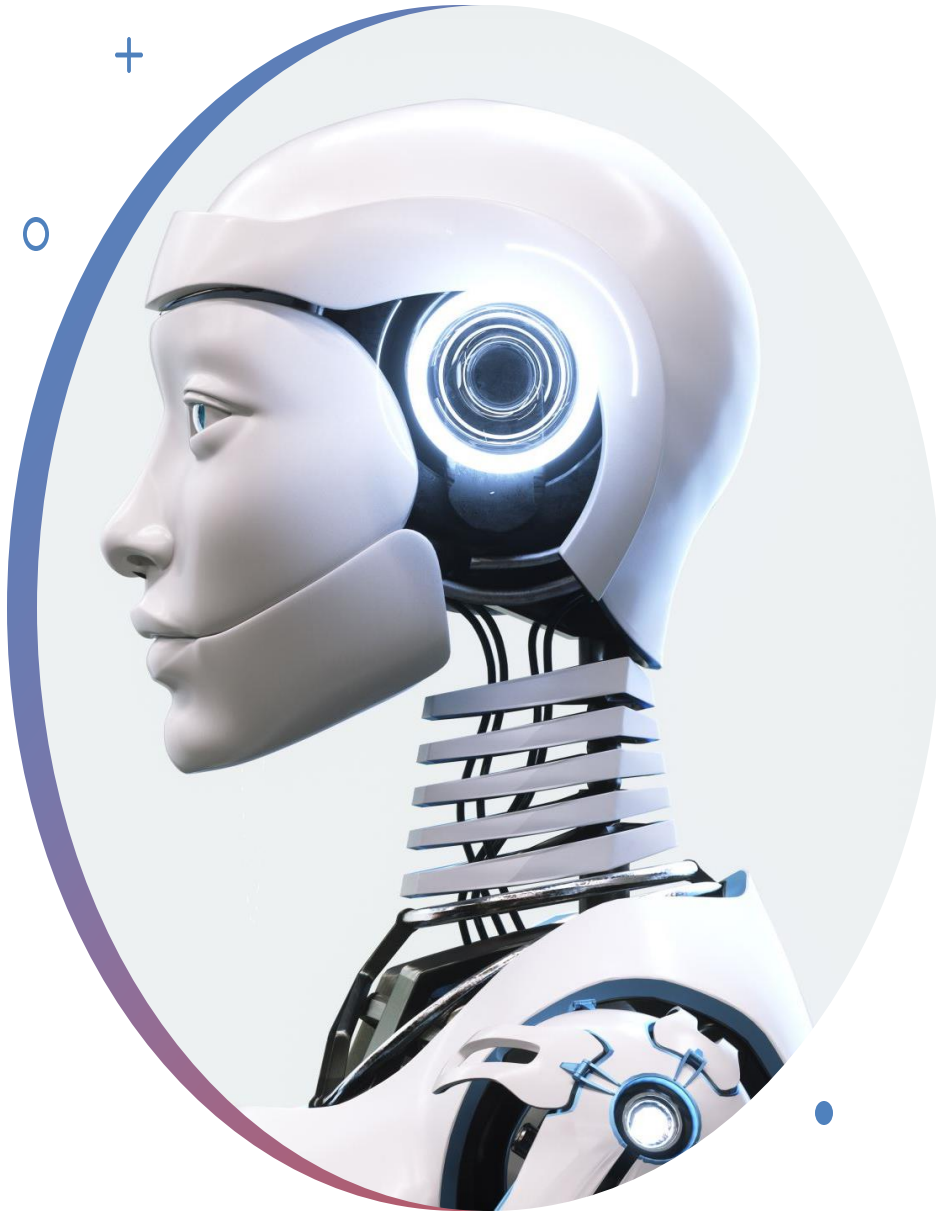
What is Artificial Intelligence?

AI in Daily Life

Advantages & Disadvantages of AI

AI and the Job Market

The Future of AI

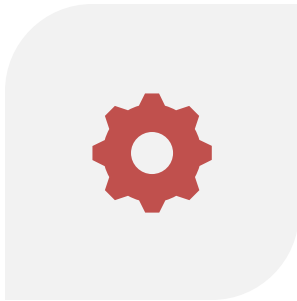


What is Artificial Intelligence?

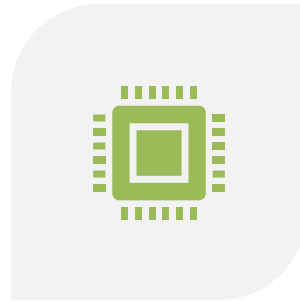
- simulation of human intelligence
- AI is not just robots
- mainly **software**

How Does AI Work?

+
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0



INPUT



PROCESSING



OUTPUT



Two Main Types of AI

- **Narrow AI (Weak AI)**
Siri, Face ID, Chess bots
- **General AI (Strong AI)**

Quick Question...

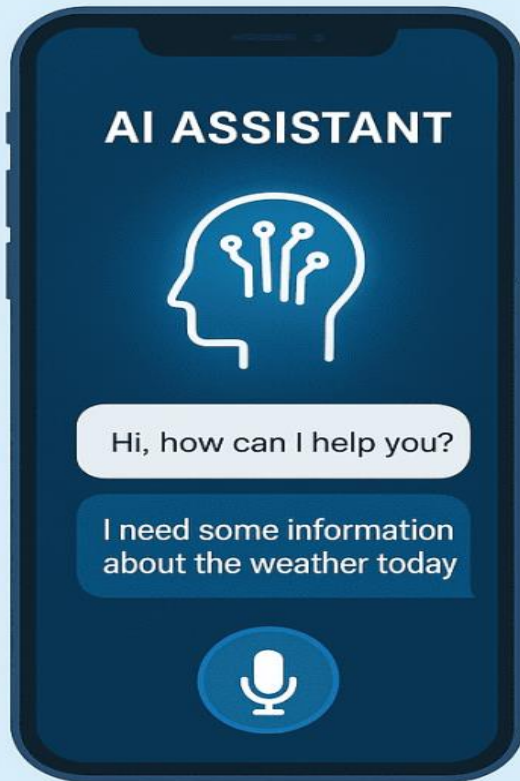
Have you used AI today?

AI in Daily Life

How AI is impacting our lives?

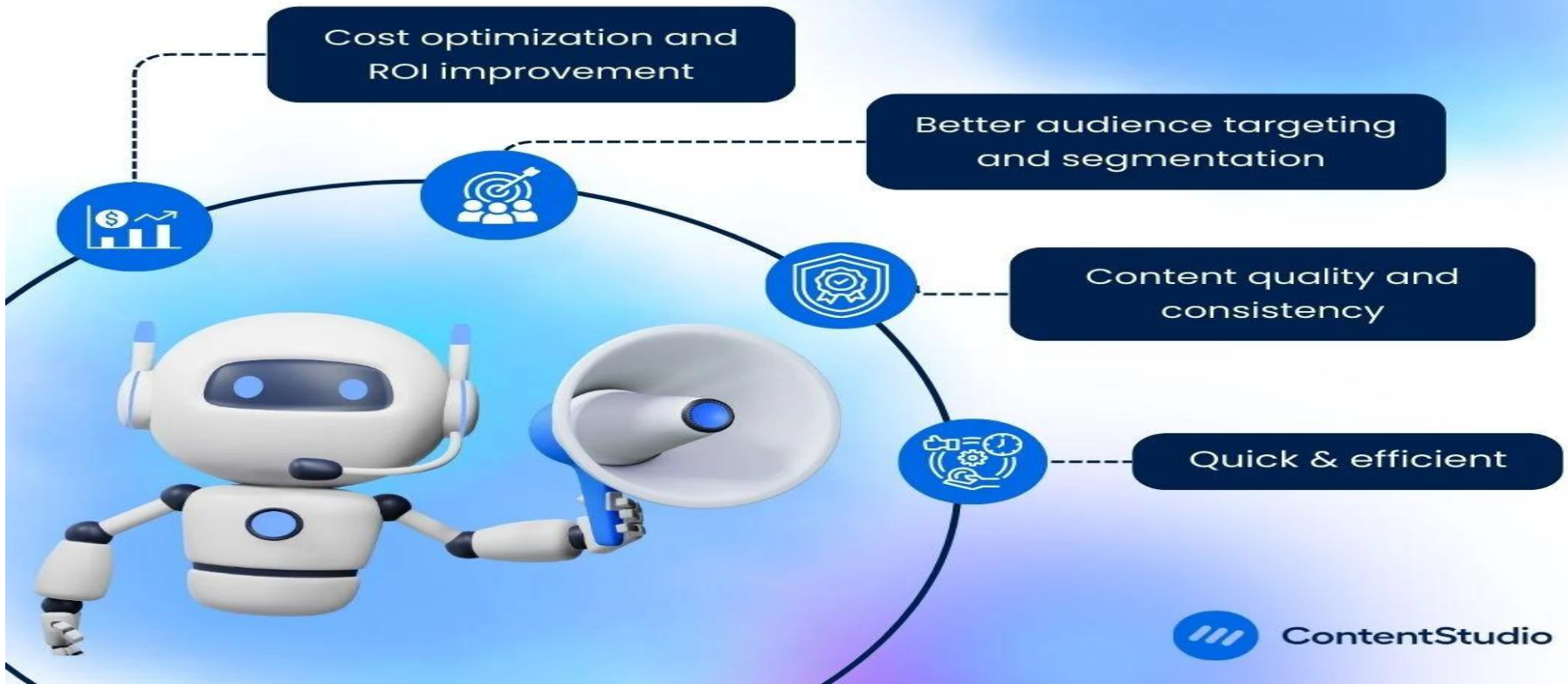


1 . Your Smartphone



2. Social Media

BENEFITS OF AI TOOLS FOR SOCIAL MEDIA MARKETING



3. E-Commerce



4. Navigation



5. Smart Home

EXHIBIT 1: AI-based Voice-assistance and Control Systems



 Bixby



LG CLOi™




YEELIGHT




amazon alexa



Rokid Pebble



 **HomePod**




ASSISTANT




Alibaba Group
阿里巴巴集团

Summary



WHAT IS ARTIFICIAL
INTELLIGENCE?



AI IN DAILY LIFE

6. In Education

- Personalized Learning
- AI tracks each student's performance and identifies strengths and weaknesses.
- It provides learning content and assignments based on the student's learning pace.
- It increases engagement and helps teachers focus more on students' needs

7. Smart Content

- AI creates or improves educational materials such as summaries, quizzes, and interactive simulations.
- It makes learning easier, more enjoyable, and accessible for all students
- AI makes education more personalized, interactive, and efficient.

7. Self-Driving Cars

- What does it mean?
- A self-driving car is a car that can drive by itself without a human controlling the steering wheel.
- It can see the road and make decisions almost like a human driver.

Advantages of AI

- Makes our life easier
We can ask AI about anything and get an instant answer.
- Available anytime
AI works 24/7 without getting tired.
- Fast and saves time
It completes tasks quickly and reduces effort.
- Good at analyzing data
It can analyze large amounts of data accurately

Disadvantages of AI

- May replace some jobs
Especially routine jobs like customer service or data entry.
- Gives wrong results if programmed incorrectly
AI depends on the data and instructions it is given.
- Lack of creativity
AI only does what it is told; it does not think like humans.
- Security risks
AI systems can be hacked, and sensitive data (like bank data) may be exposed.

conclusion

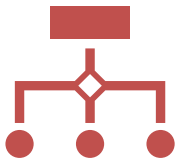


AI has many Advantages and Disadvantages



Ai In Daily Life

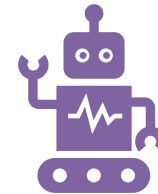
Shift in Employment



Repetitive Jobs: Decreasing (e.g., data entry, routine tasks) → Being automated.



Creative Jobs: Stable (e.g., designers, writers, strategists) → Still need human creativity.



Tech/AI Jobs: Exploding (e.g., AI engineers, data scientists) → New roles are being created.

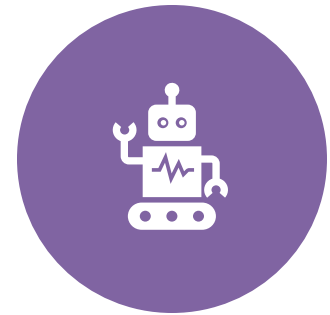
New Career Paths



DATA SCIENTIST: ANALYZES
THE DATA THAT FEEDS AI.



AI ETHICS SPECIALIST:
ENSURES AI IS FAIR, SAFE,
AND UNBIASED.



ROBOTICS ENGINEER:
BUILDS AND MAINTAINS
PHYSICAL ROBOTS.

Ethical Challenge – Bias

AI learns from human data.

A large blue downward-pointing arrow connects the first box to the second box.

If the data is biased, the AI will be biased.

A large blue downward-pointing arrow connects the second box to the third box.

Example: Hiring algorithms favoring men over women because past data had more men.

The background of the image is a dark blue surface. Scattered across this surface are numerous white, stylized human figures. Each figure is positioned at a node of a network, which is represented by thin black lines connecting the nodes. The figures are of varying heights and are arranged in a way that suggests a complex, interconnected web. The text "Solution: Diverse teams + better data selection." is overlaid in the center of the image in a white, sans-serif font.

Solution: Diverse teams +
better data selection.



Ethical Challenge – Privacy



Where does it come from?



Your search history



Location data



Social media posts



The Big Question: How much privacy are we willing to trade for convenience



Ethical Challenge – Deepfakes

- "Seeing is no longer believing."
 - AI can create realistic videos of people saying things they never said.
 - Risks:
 - Misinformation (fake news, political manipulation)
 - Identity theft (fake videos using your face)
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Responsible Use of AI



Responsible Use of AI



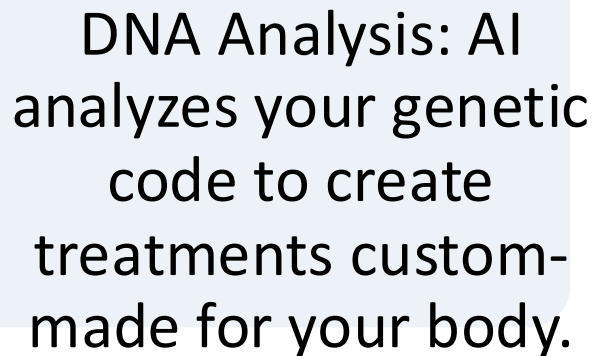
Transparency: Companies must be clear when AI is used (e.g., labeling AI-generated content).



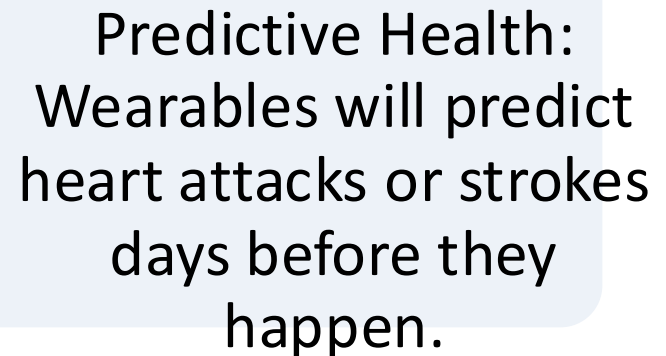
Accountability: Laws must hold developers responsible if their AI causes harm.



The Future of AI – Personalized Medicine



DNA Analysis: AI analyzes your genetic code to create treatments custom-made for your body.



Predictive Health: Wearables will predict heart attacks or strokes days before they happen.

The Future of AI – Smart Cities

Fully Connected: Traffic lights, power grids, and public transport talk to each other.

Results:

No traffic jams

Efficient energy use

Safer streets

Human + AI Collaboration (The Most Important Slide)

- The future isn't AI replacing humans.
- It's humans empowered by AI.
- Examples:

Doctors + AI Diagnostics

Artists + AI Tools

Engineers + AI Simulations

Key Takeaway: AI is a tool

Final Summary



IT'S EVERYWHERE: FROM
PHONES TO CARS.



PROS & CONS: EFFICIENT,
BUT NEEDS ETHICAL
CONTROL.



THE FUTURE:
COLLABORATION IS KEY

Let's Discuss (Interactive Slide)

"If you could have an AI robot do ONE chore for you forever, what would it be?"