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O1. INTRO TO AI

What is Artificial Intelligence?

WHAT IS AI?

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Artificial intelligence (AI) is technology that enables computers and machines to simulate human learning, comprehension, problem solving, decision making, creativity and autonomy

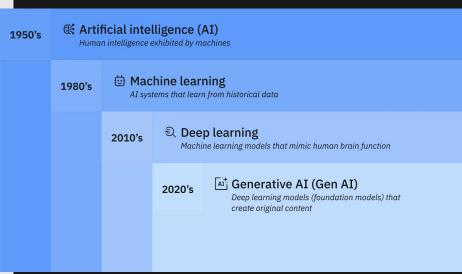
Al is a series of nested or derivative concepts that have emerged over more than 70 years

QUICK HISTORY OF AI

1950s: Computing machines functioned as large scale calculators. Organizations such as NASA used these machines for specific calculations on rocket launches

1980s: The "AI Winter" countinued to grow as new inventions such as the first driverless car in Germany emerged

2010s: The renewed interest in AI led to significant growth such as *Kismet*, a social robot, Siri & Alexa, & NASA rovers on Mars 2020s: The surge in AI has led to development in Generative AI & the release in ChatGPT



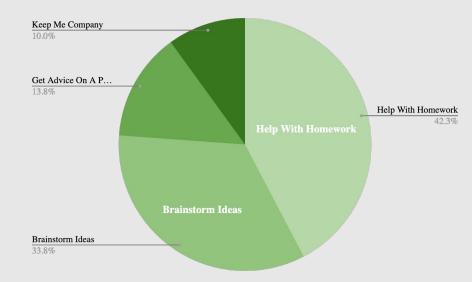
Al Winter: a period of decreased funding, interest, and progress in artificial intelligence research and development, caused by overblown promises, unrealistic public expectations, and technological limitations that lead to disillusionment and a slowdown in investment

AI IN YOUR DAILY APPS

School & Learning: Grammarly, ChaptGPT, Quizlet

Social Media: Snapchat, Instagram, TikTok

There are many apps that you may be using that you don't know are powered by Al!



TYPES OF AI







NARROW AI

- Also known as Weak AI
- Can be trained to perform a single task
- Examples: Siri & Alexa



GENERAL AI

- Also known as Strong Al
- Can use previous learnings to accomplish new tasks
- Can perform any task a human can



SUPER AI

- Strictly theoretical
- Could evolve to feel emotions of their own
- Can make judgments that passes the ones of human beings





WHY DOES AI MATTER?

Creation of New Jobs: Al related jobs pay 11% more than non-Al related jobs

Automates Non-routine Tasks: Al can model climate change predictions & help you reduce your household energy

Critical For Professionals: Over 90% of employers plan to implement AI by 2028



HOW DOES AI WORK

INPUT Data is first as

Data is first collected from various sources in the form of text, audio, video, and more PROCESSING

Once data is gathered and inputted, the next step is to allow AI to decide what to do with the data **OUTCOMES**

The AI can use those complex patterns to predict outcomes in customer behavior and market trends ADJUSTMENTS

When data sets are considered a "fail," Al learns from that mistake, and the process is repeated again under different conditions **ASSESSMENTS**

Al technology synthesizes insights gained from the data set to make predictions based on the outcomes and adjustments



QUICK ACTIVITY



QUESTION

Where do you think you use Al the most everyday (specific app, for fun, etc)?

Comment your answer into the Google Chat!

ANSWER





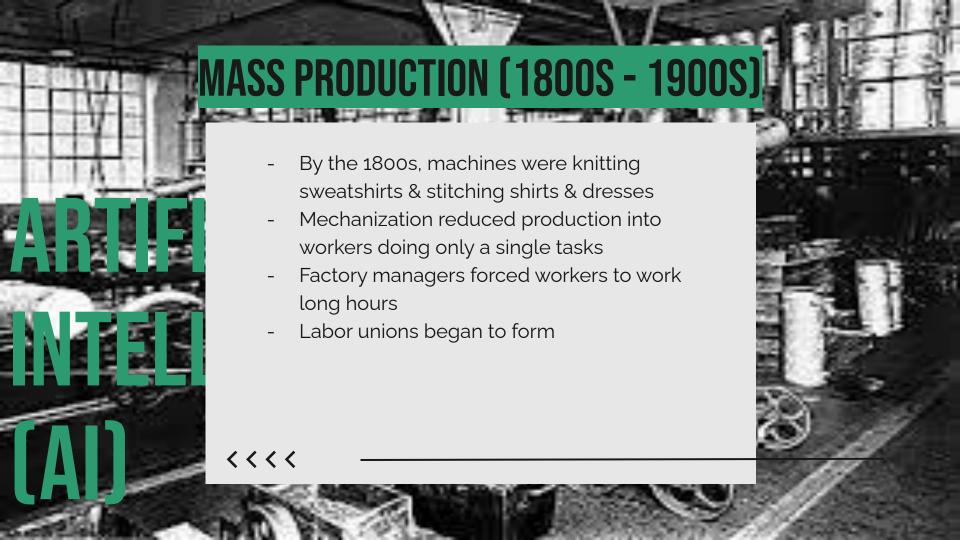
QUICK HISTORY OF TECHNOLOGY

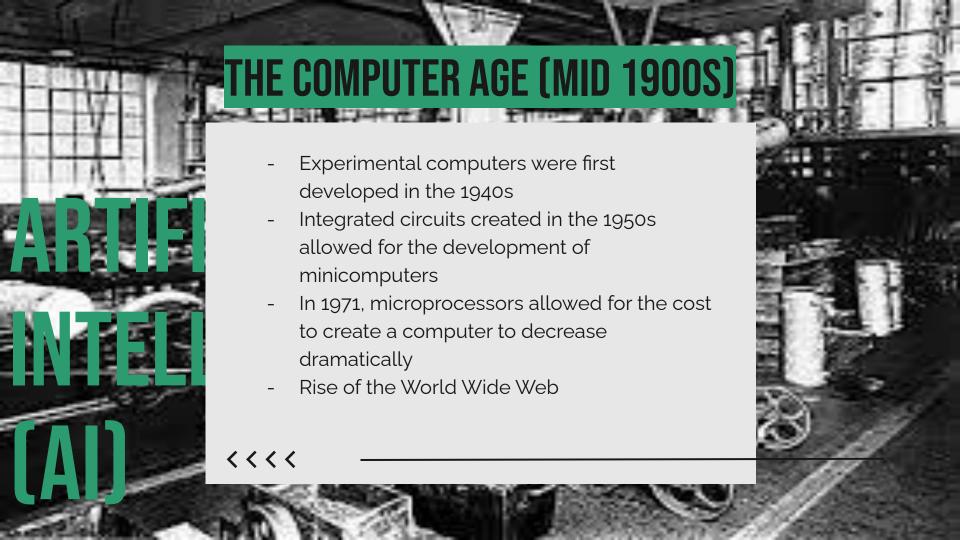
Industrial Revolution to the Internet Age

INDUSTRIAL REVOLUTION (1700S - 1800S)

- Started in Britain in the 18th century
- Steam Engines, Factories, Mechanic Farming
- People moved from farms into major cities for jobs (especially jobs in a factory)
- Process of change from a agrarian economy to a handicraft economy
- New energy sources such as coal, electricity,& petroleum
- Development of the working class







MOBILE & SOCIAL (2000S - 2010S)

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- The first smartphone was created in 1992 but launched in 1994
- The first social media platform, Six Degrees, was launched in 1996
- Facebook is created in 2004 & instagram is created in 2010
- Instant messaging was first created in 1971 by
 Murray Turoff
- Technology is becoming a center tool for information

EFFECTS OF TECHNOLOGY

As technology continues to become more and more developed, it has led to both negative & positive effects

- Increase in the rate of obesity
- Leads to lower self-esteem
- Decreased the average attention span to 8 seconds
- Increase in screen time

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QUICK ACTIVITY



QUESTION

What age did you receive your first electronic device (phone, tablet, computer, etc)?

Comment your answer into the Google Chat!

ANSWER





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03.

ECONOMICS OF AI

The role of automation

INTRO TO AI AND AUTOMATION

Al: machines performing tasks that need human-like intelligence

Automation: use of technology to complete tasks with minimal human input

How does this reshape economies?

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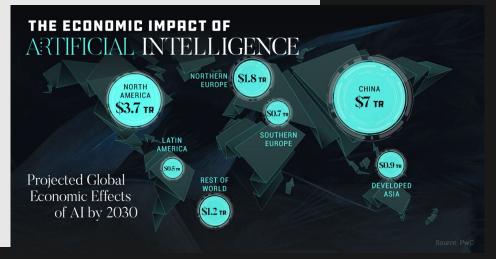
ECONOMIC BENEFITS

Increases productivity: faster, more accurate output

Cuts costs for businesses, raises profit margins

Creates new industries (AI tools, robotics, data

services)



ECONOMIC CHALLENGES

Job losses in repetitive sectors (manufacturing, admin)

Widening income gap: high-skill vs low-skill jobs

High adoption costs for small and mid-sized companies



OVERALL ECONOMIC IMPACT

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Short-term: disruption in traditional jobs

Long-term: potential for stronger economic growth

Policy and education crucial to balance gains

QUICK ACTIVITY



QUESTION

What do you think has the biggest impact, the short term or long term impacts?

Comment your answer into the Google Chat!

ANSWER





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O4. SKILLS FOR THE AI ECONOMY

Skills you need to stand out

OVERVIEW OF LABOR MARKET SHIFTS

Automation and AI changing skill demands

Remote work and digital tools expanding globally

Some roles vanish while others grow

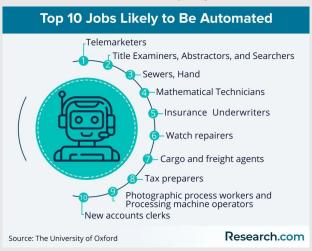
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JOBS AT RISK

Routine jobs: manufacturing, retail cashiers, basic data entry

Tasks easily automated: repetitive, rule-based

Mid-skill roles more vulnerable than highly creative or manual roles





JOBS ON THE RISE

Tech: Al engineers, cybersecurity, data analysts

Human-focused: healthcare, education, creative industries

Green economy: renewable energy, sustainability experts



PREPARING FOR THE FUTURE

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Upskill in digital and analytical skills

Focus on creativity, problem-solving, teamwork

Governments and companies offering retraining programs

QUICK ACTIVITY



QUESTION

What do you think is an important skill to have?

Comment your answer into the Google Chat!

ANSWER







SHIFTS IN THE LABOR MARKET

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How will the labor market be impacted?

AI AND THE LABOR MARKET

WHAT IS AI'S ROLE?

- General-purpose technology (like electricity/internet)
- Automates tasks, analyzes data, makes predictions
- Already embedded in daily life and various industries



WHY IT MATTERS FOR WORK

- Reshapes how jobs are done
- Impacts all industries: healthcare, finance, logistics, education
- Can replace, disrupt, or transform human roles



THE BIG QUESTION

- Will AI mostly replace jobs?
- Or create new ones and boost productivity?

Reality: AI won't necessarily replace every single job but it will disrupt every industry and sector



SECTORS AT HIGH RISK OF LOSS



MANUFACTURING

assembly line robotics, quality control scanners

RETAIL & CUSTOMER SERVICE

chatbots, self-checkout, virtual assistants

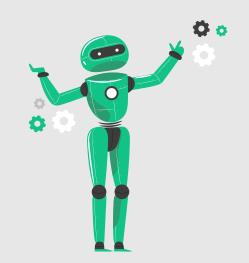
TRANSPORTATION

Enhances autonomous vehicles, delivery drones

LOWER LEVEL OFFICE WORK

Used for data entry, payroll, routine reporting

Rule of thumb: Routine & repetitive tasks are most vulnerable, however; AI often replaces <u>specific tasks</u>, not the entire job in a sector.



THE CHANGING PARADIGM

CHANGING ROLES

AI is taking over repetitive tasks, shifting jobs toward higher-value, strategic work.

HUMAN + AI COLLABORATION

Al can act as co-pilots, working along with people to complete tasks

HUMAN SKILLS RISING

Creativity, critical thinking, and emotional intelligence are becoming more critical in the workforce than basic technical skills

NEW HYBRID CAREERS

Careers require knowledge of AI literacy as well as traditional skills



WHAT IS THE LONG TERM IMPACT?



WORKFORCE TRAINING

Governments and businesses must invest in reskilling and upskilling programs.

CHANGES IN EDUCATION

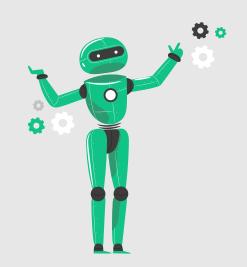
Growing focus on AI literacy, STEM, and critical thinking to prepare future workers.

SOCIAL SAFETY NETS

Debates on universal basic income (UBI), wage subsidies, and stronger unemployment benefits.

REGULATION & ETHICS

It is crucial that Policies help ensure fairness, transparency, and protection for workers.



QUICK ACTIVITY



QUESTION

Do you think AI mainly supports or harms the labor market?

Comment your answer into the Google Chat!

ANSWER





O6. POLICY & ETHICS

Regulations and Policy



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WHY POLICY & ETHICS MATTER

Al adoption is moving fast and regulations could be needed to smooth out the edges.

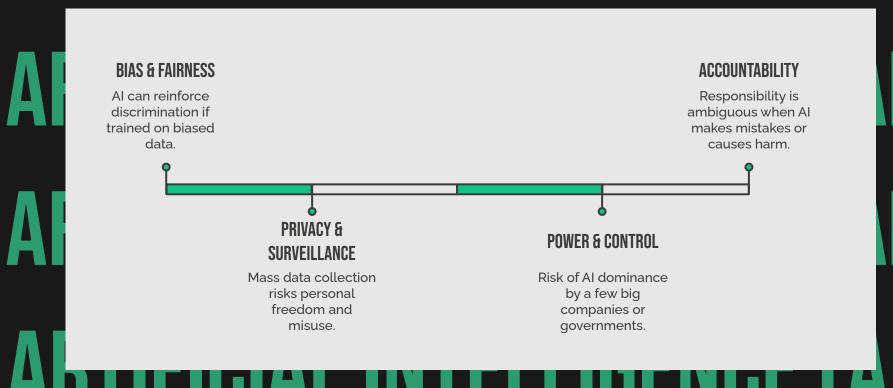




We know that AI can boost productivity, lower costs, and create entirely new industries, offering major opportunities for economic growth. But policies should encourage companies to adopt AI responsibly in a way that can enrich current jobs and maintain growth in job opportunities. At the same time, governments must prepare for risks such as worker displacement, and wage inequality.



ETHICAL CHALLENGES OF AI



STANCE OF MAJOR GLOBAL ACTORS





Innovation-led, lighter regulation, private sector driven growth. Focus is on leading globally and avoiding stifling innovation.



State-driven, rapid Al growth, focus on security & surveillance.



EU

Strict rules (AI Act), more regulatory frameworks but also supports growth. (Innovation lags behind US and China)





QUICK ACTIVITY



QUESTION

In your opinion would you prioritize innovation or safety in the growing AI market?

Comment your answer into the Google Chat!

ANSWER











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