

Tech
trends>

DIGITALIZATION

VR

AUTOMATION

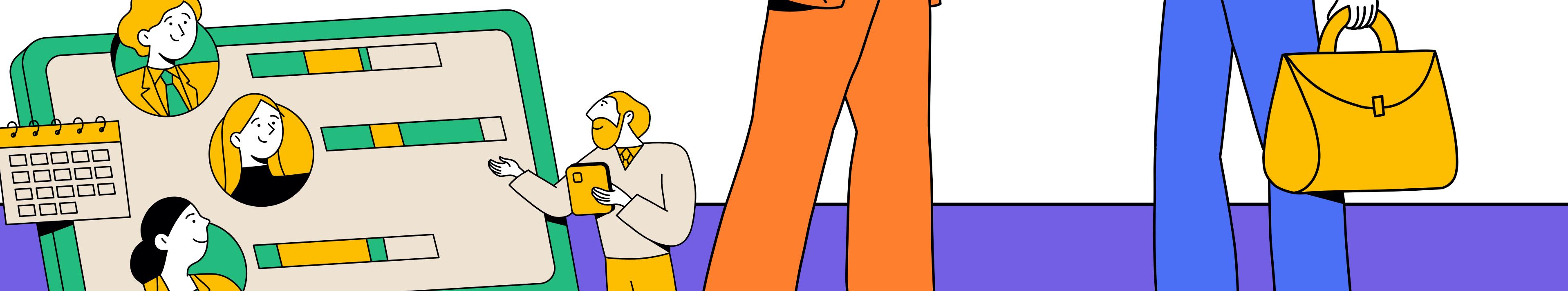
AI

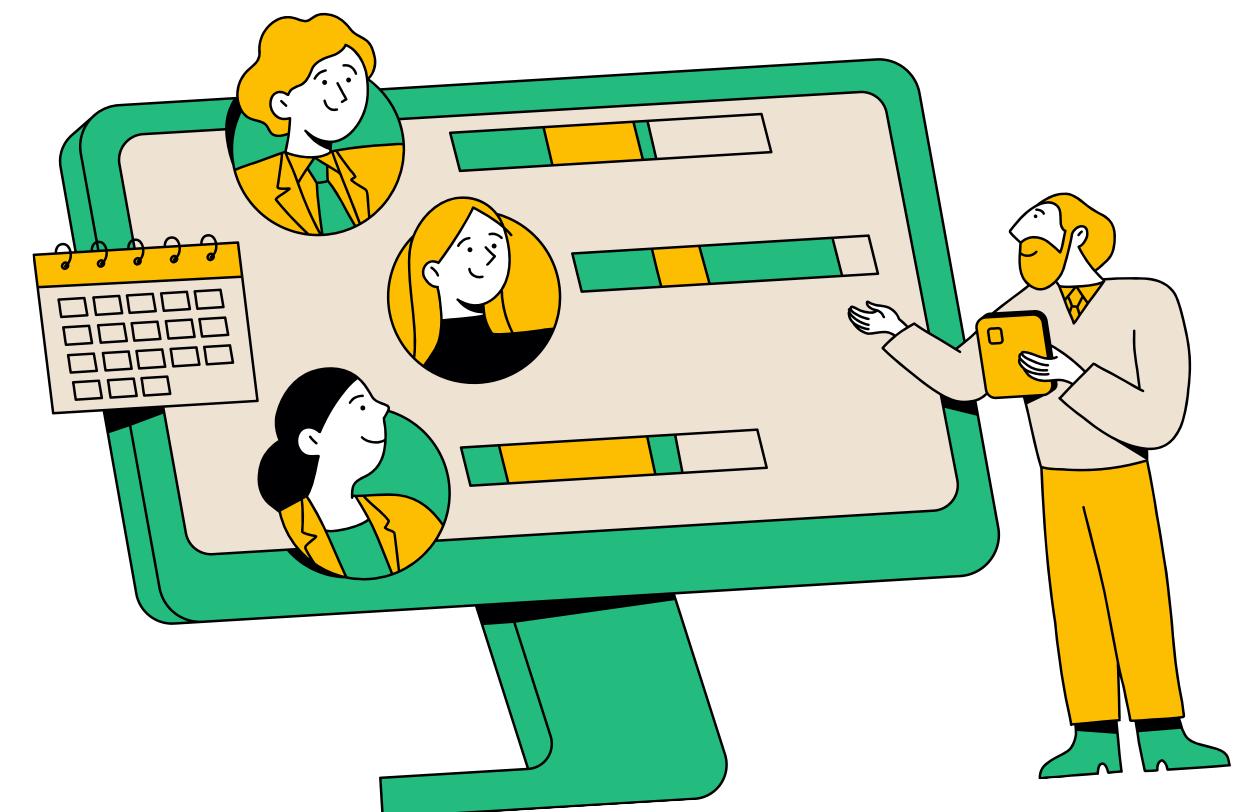
AR
CENTRALIZATION

INTEGRATION

Digital Innovation

Business and Education
Transformation in the
Technology Era





Introduction

Digital innovation is the application of new technology to increase efficiency, create new products and services, and improve customer experience. In this technological era, businesses must adapt quickly to remain competitive.



The Importance of Digital Innovation

Digital innovation is important because it allows businesses to:

- Increase operational efficiency
- Reach new markets
- Increase customer satisfaction
- Develop new products and services

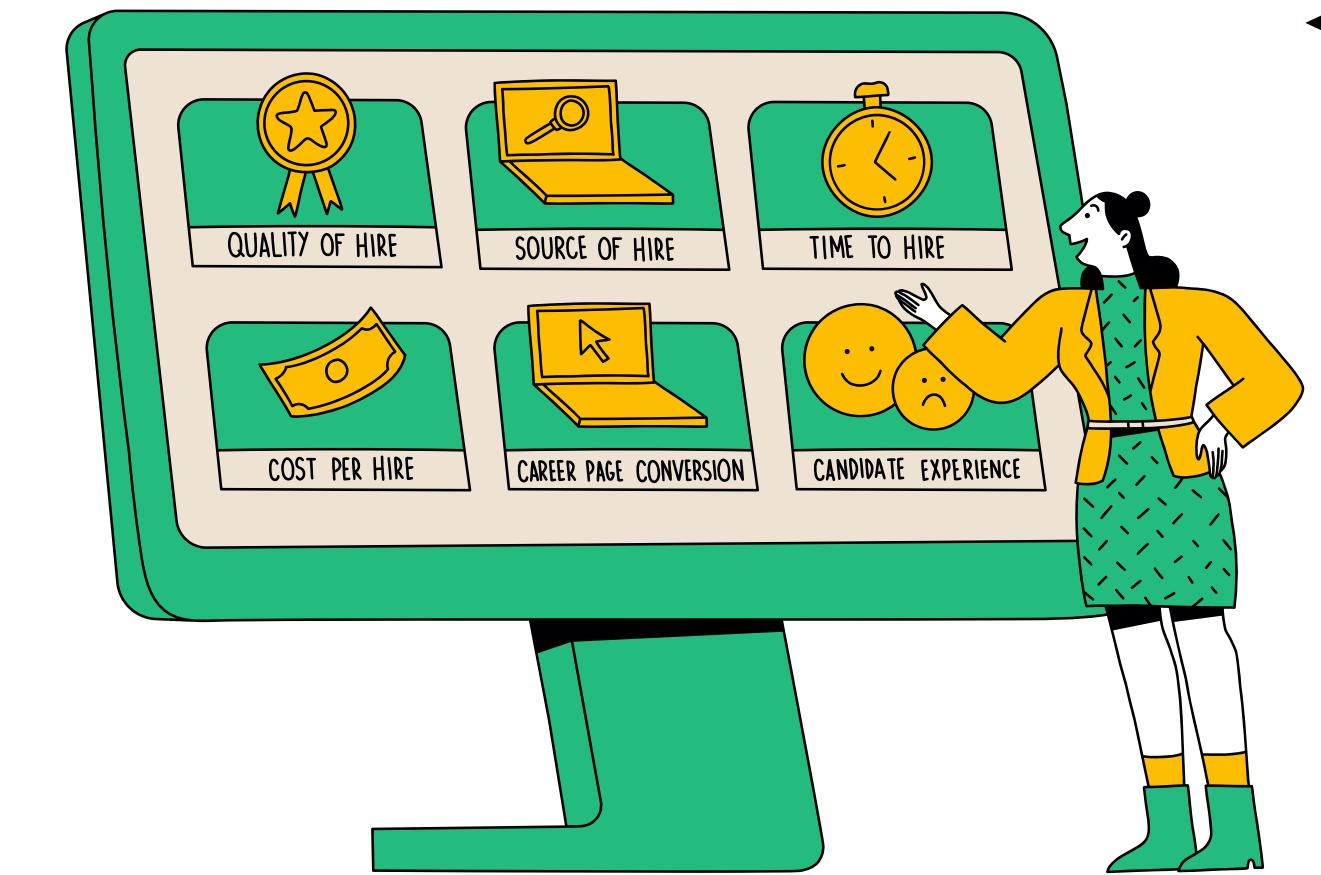
Digital Transformation in Various Industries

Digital transformation doesn't just happen in one sector. Industries such as manufacturing, healthcare, finance, and retail are all experiencing significant changes due to digital technology.



Challenges in Digital Innovation

Despite the great benefits, digital innovation also has challenges:



- High implementation costs
- Organizational culture change
- Data security issues
- The need for new digital skills



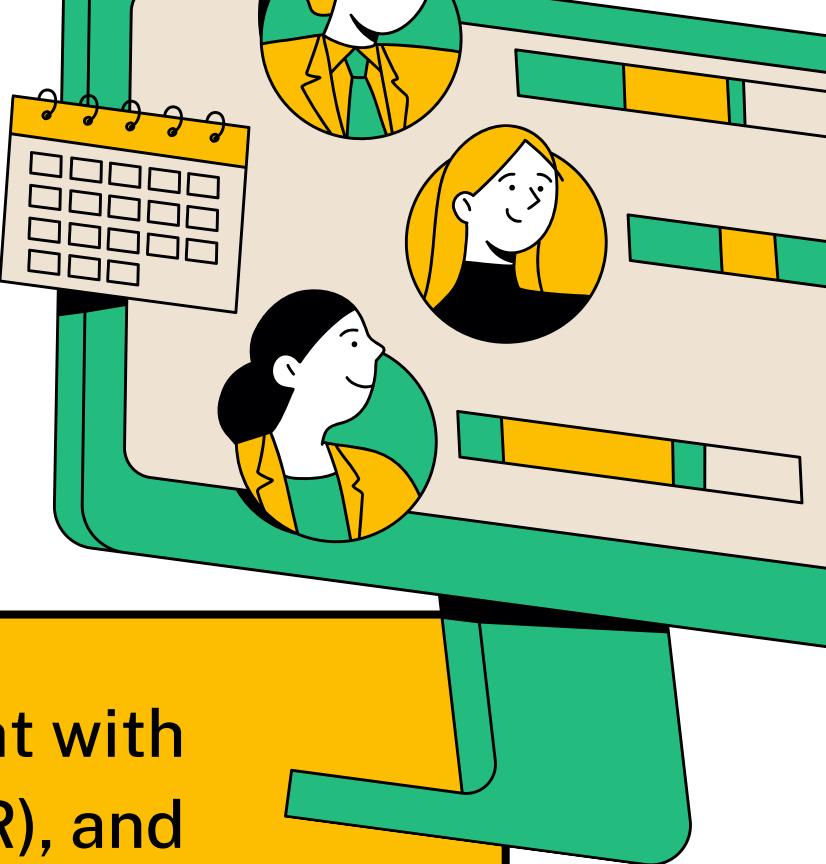
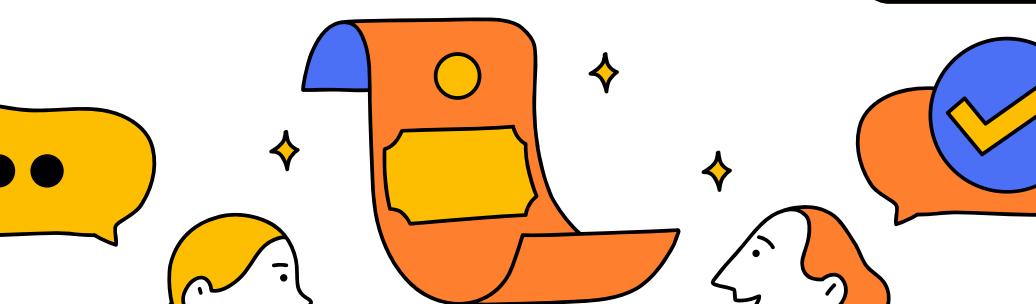
Strategies for Success in Digital Transformation

Some strategies for success in digital transformation include:

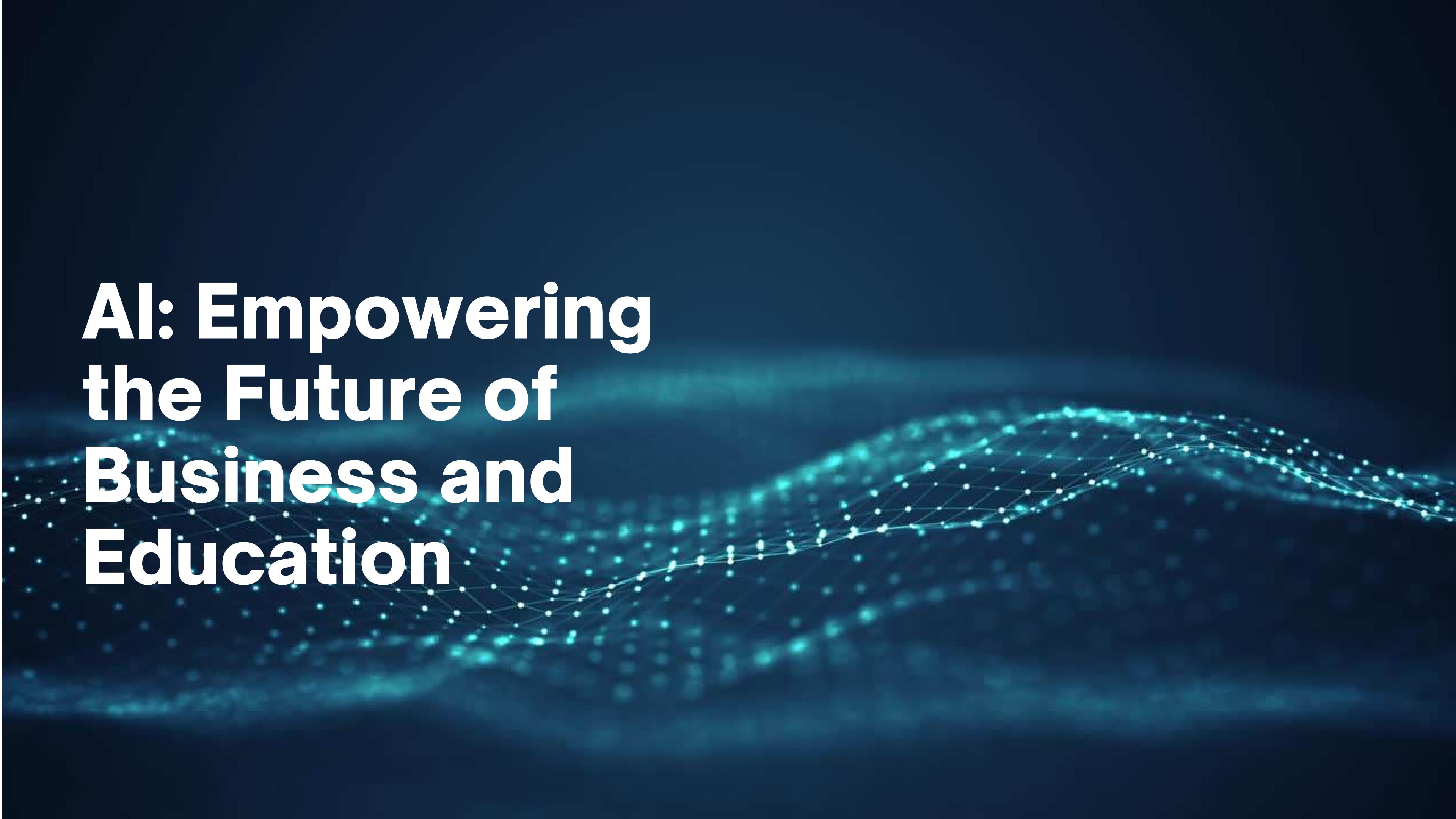
- Have a clear vision and goals
- Involve the entire team in the change process
- Invest in training and skills development

The Future of Digital Innovation

The future of digital innovation is bright with technologies like 5G, virtual reality (VR), and augmented reality (AR) that will further change the way we work and interact. Businesses that continue to innovate will have a competitive advantage in the market.

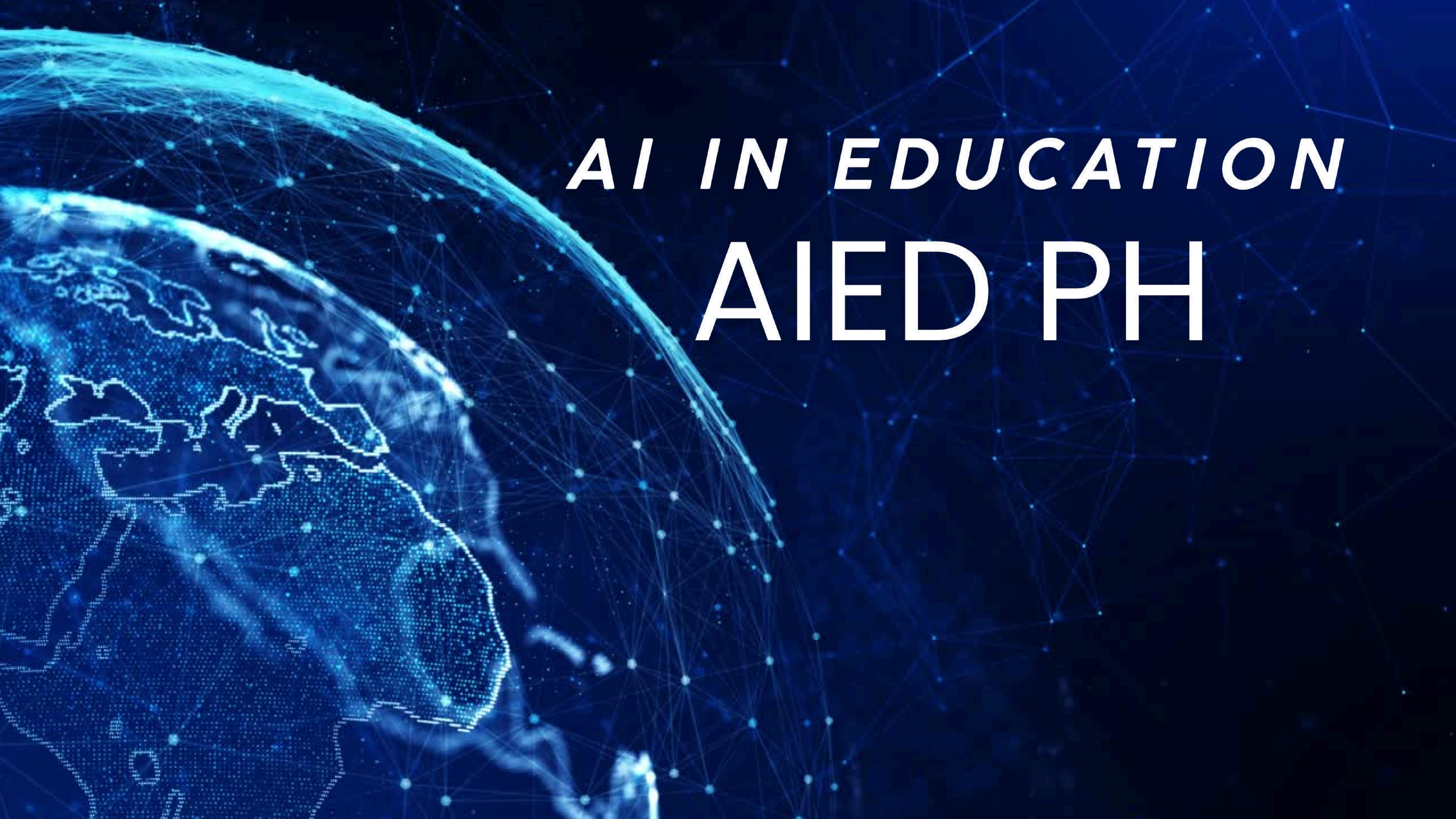


AI: Empowering the Future of Business and Education



Introduction to AI





AI IN EDUCATION

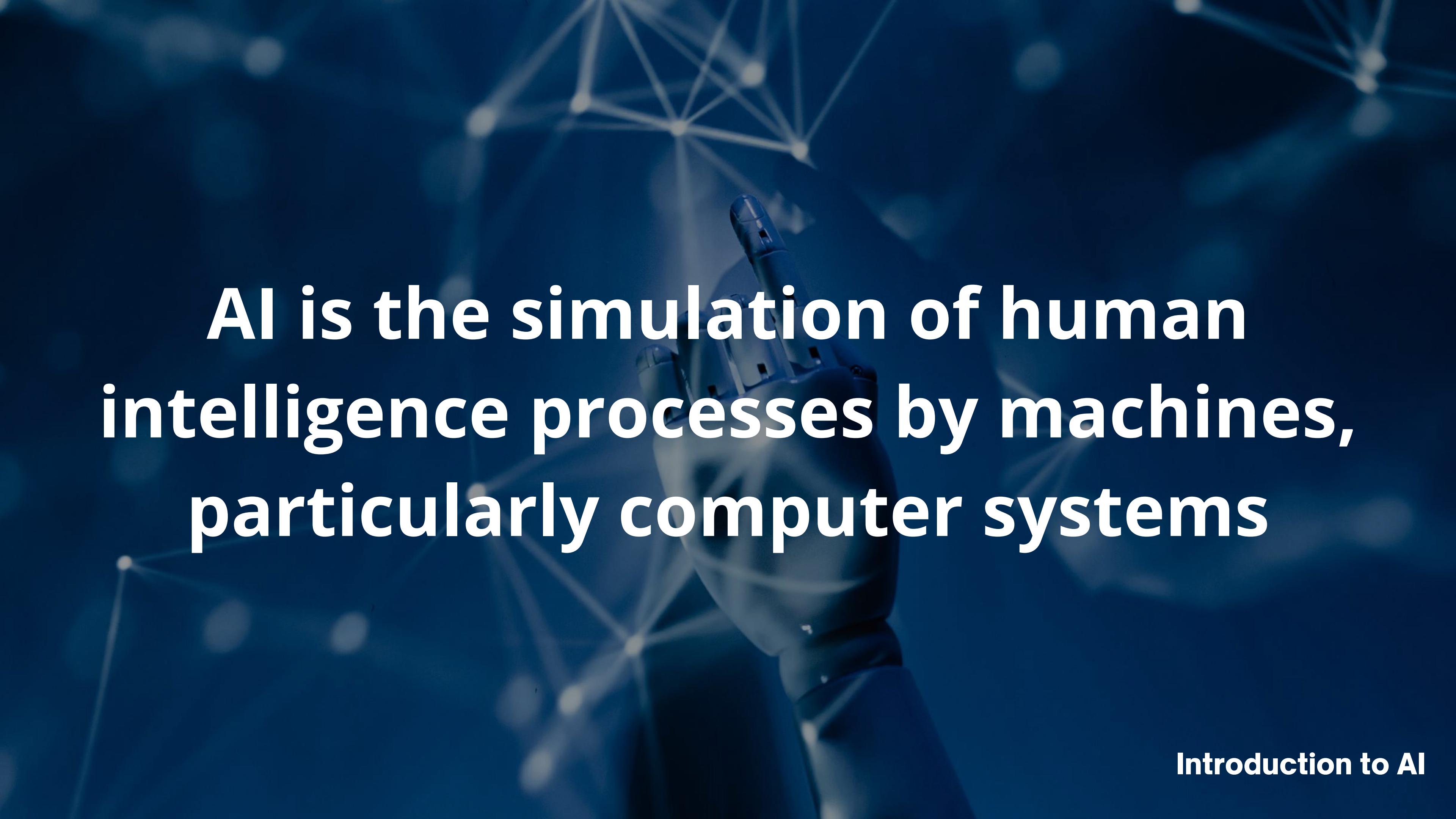
AIEDPH

[HTTPS://PHILSTARLIFE.COM/NEWS-AND-VIEWS/283288-TRUTH-ABOUT-USING-AI-SCHOOLS?PAGE=3](https://philstarlife.com/news-and-views/283288-truth-about-using-ai-schools?page=3)

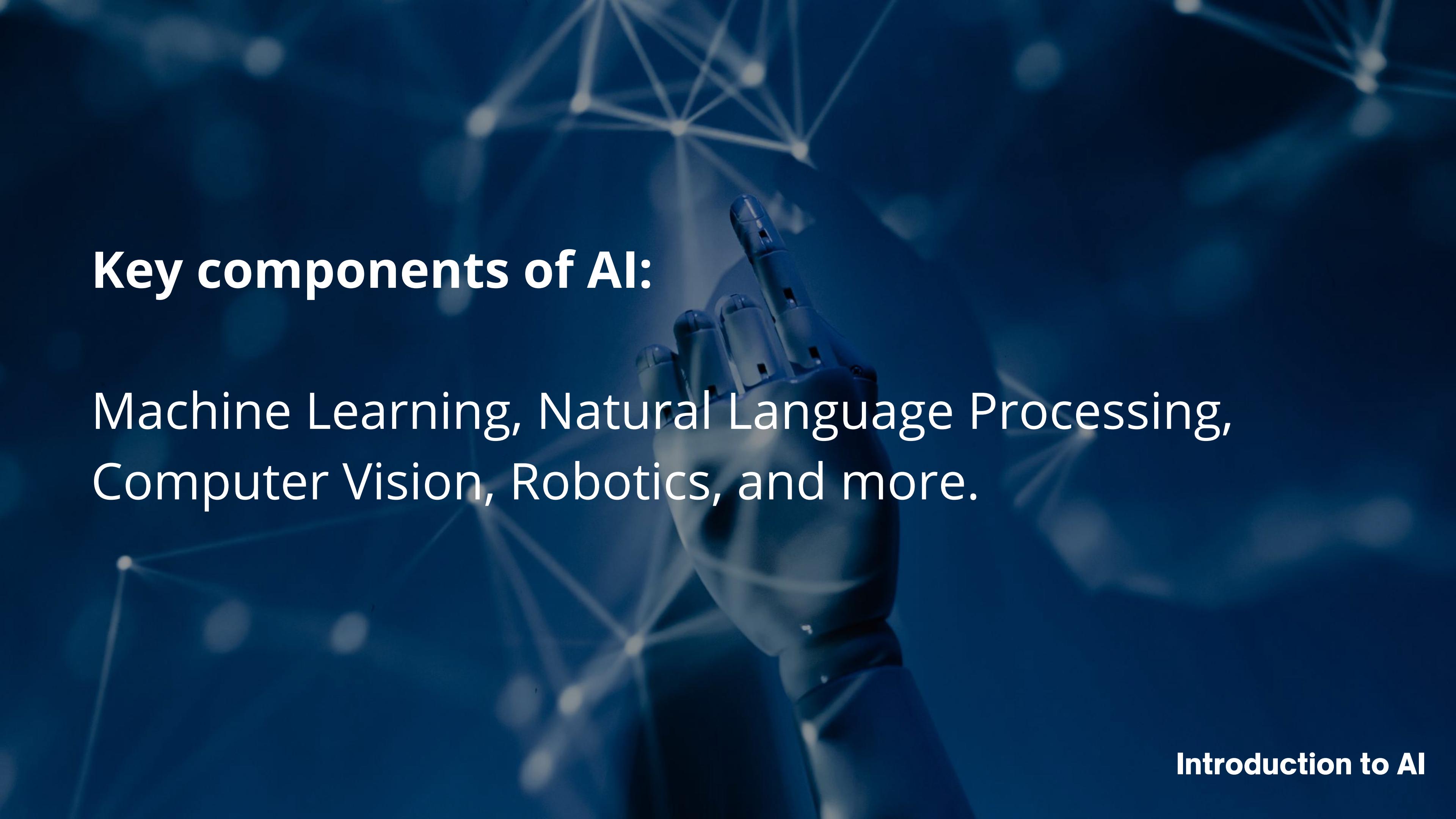
[HTTPS://WWW.BWORLDONLINE.COM/TECHNOLOGY/2023/04/11/515863/EXPERTS-CALL-FOR-ETHICAL-GUIDELINES-FOR-AI-USE-IN-PHILIPPINE-EDUCATION/](https://www.bworldonline.com/technology/2023/04/11/515863/experts-call-for-ethical-guidelines-for-ai-use-in-philippine-education/)

[HTTPS://NEWS.ABS-CBN.COM/BUSINESS/11/16/23/PH-SCHOOLS-ADOPTING-AI-UP-AMONG-FIRST-IN-ASIA-GROUP](https://news.abs-cbn.com/business/11/16/23/ph-schools-adopting-ai-up-among-first-in-asia-group)

[HTTPS://WWW.TEACHERPH.COM/IMPACT-ARTIFICIAL-INTELLIGENCE-EDUCATION/](https://www.teacherph.com/impact-artificial-intelligence-education/)

A person wearing a VR headset with glowing blue lines forming a complex network or mesh pattern around their head.

AI is the simulation of human
intelligence processes by machines,
particularly computer systems



Key components of AI:

Machine Learning, Natural Language Processing,
Computer Vision, Robotics, and more.



AI's potential impact on society and businesses.

Types of AI

Narrow AI (Weak AI): AI designed for specific tasks and functions.

General AI (Strong AI): AI with human-like cognitive abilities and understanding.

Superintelligence: Hypothetical AI surpassing human intelligence.

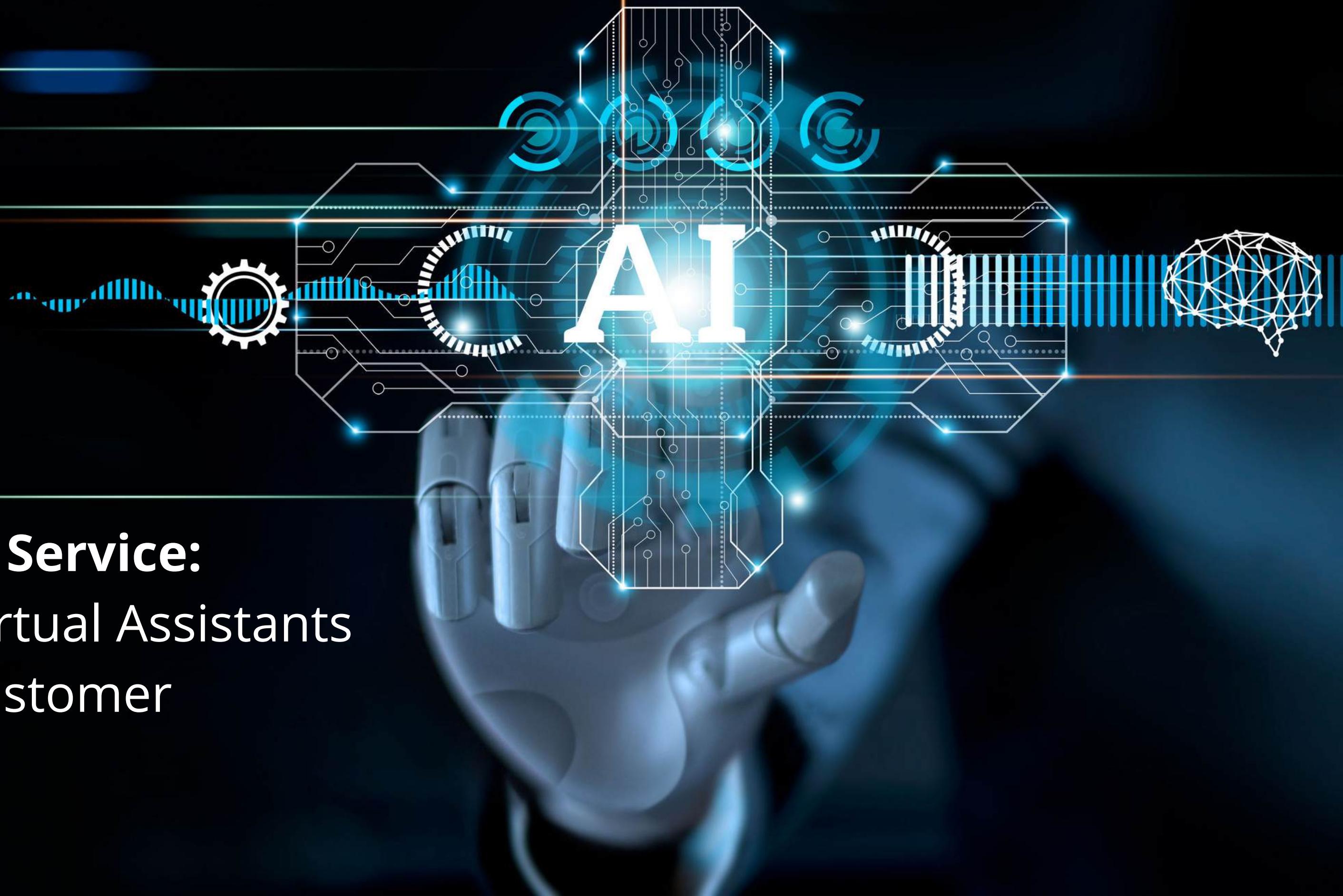




A composite image featuring a woman's face in profile on the left, looking towards the right. Overlaid on the image is a grid of binary code (0s and 1s) in various colors (blue, white, yellow). Interspersed among the binary digits are numerous small, semi-transparent square images depicting various business and technology scenes, such as a globe, a hand pointing at a screen, a city skyline, a factory floor, a road map, and a person working on a laptop.

How AI is being used in businesses today

AI in Customer Service: Chatbots and Virtual Assistants for enhanced customer interactions





AI in Marketing and Sales:
Personalized recommendations,
targeted advertising.

A hand is shown interacting with a futuristic interface. The interface features a large, glowing blue hexagonal frame containing the letters "AI". Inside this frame, there are glowing blue circuit boards and several blue circular elements resembling gears or eyes. A blue brain-like network is visible on the right side. The background is dark blue with light blue horizontal lines.

AI in Operations:
Process automation, supply
chain optimization.



A large, dense network graph is displayed on the left side of the slide. The graph consists of numerous small, glowing blue and white circular nodes connected by a web of thin, translucent blue lines. Some nodes contain small, faint text labels such as "BS.12", "BS.13", "BS.14", and "BS.15". The overall effect is a futuristic, digital representation of complex data relationships.

AI in Finance:

Fraud detection, risk assessment.

AI in Healthcare: Diagnostics, drug discovery



Benefits and challenges of AI adoption

Benefits:

- Increased efficiency cost savings
- improved decision-making
- enhanced customer experience

Challenges:

- Data privacy concerns
- ethical considerations
- job displacement
- bias in AI algorithms

SELECTING AND USING AI TOOLS AND SERVICES





Factors to consider when selecting AI tools

◎ Compatibility

◎ Security

◎ Reliability

◎ Support

Integration with existing systems and workflows





Cloud-based vs. On-premise AI solutions

Applications

Artificial Intelligence



AI Exploration for Chatbots and Virtual Assistants



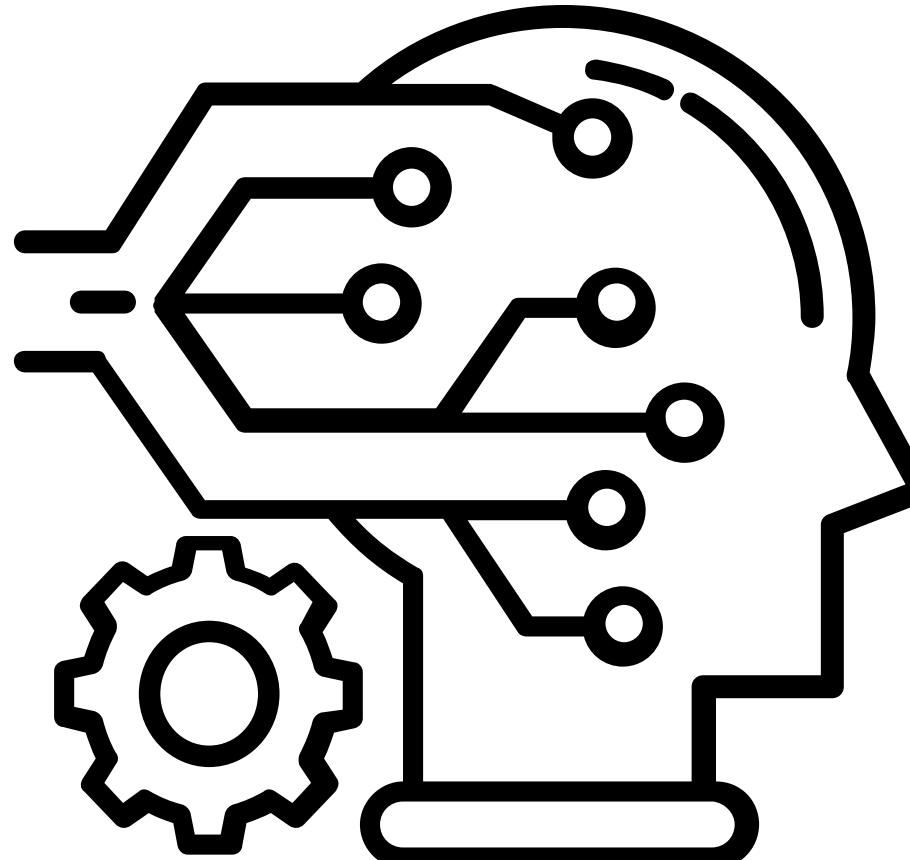
- Applications of AI-powered chatbots in customer service, lead generation, and support.
- Virtual Assistants for streamlining administrative tasks and scheduling.

AI Exploration for Multimedia Creation

- AI-driven tools for content generation, image and video editing
- Automated content curation and recommendation systems.

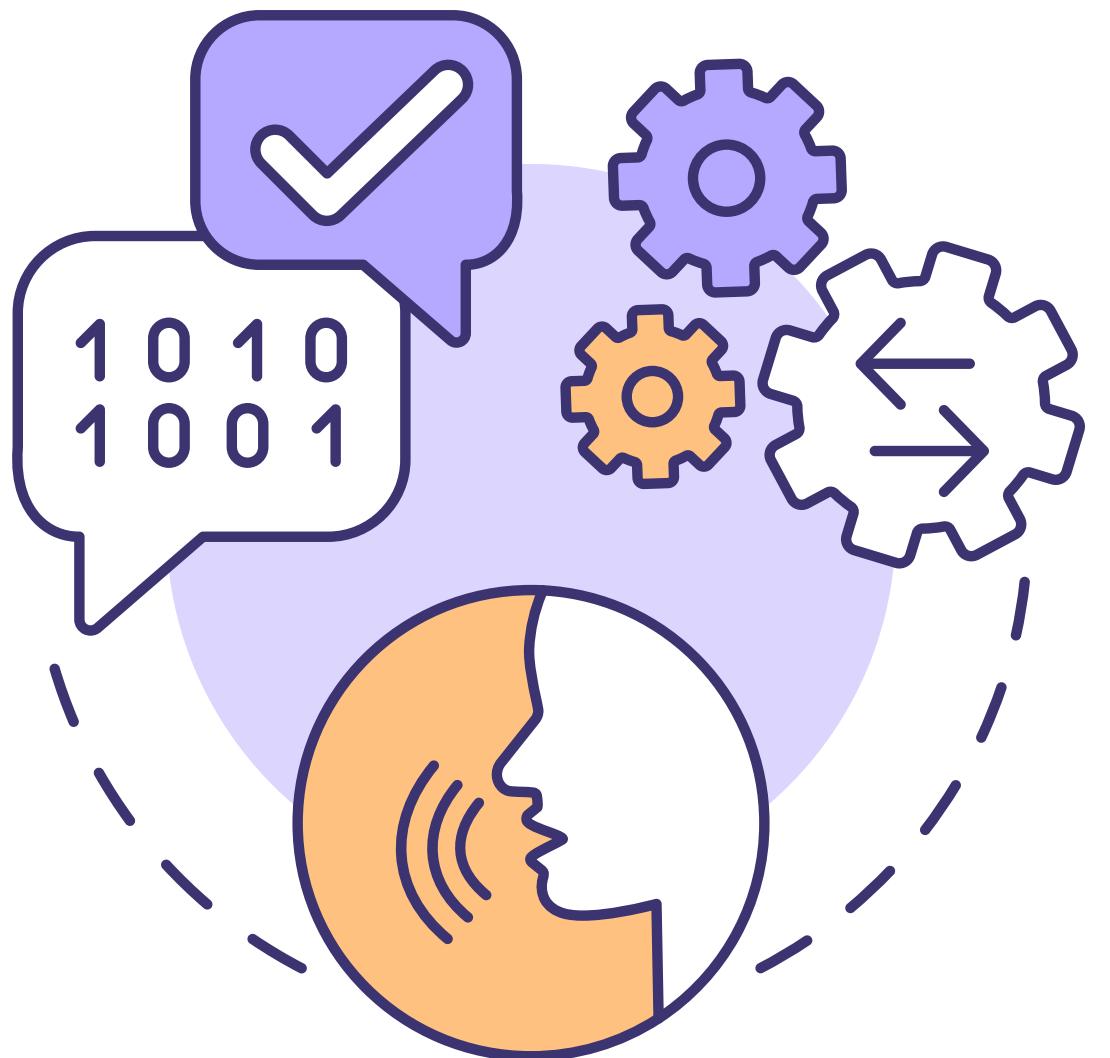


AI Exploration for Machine Learning



- Understanding the basics of machine learning algorithms: Supervised, Unsupervised, and Reinforcement learning.
- Use cases in predictive analytics, anomaly detection, and recommendation systems

AI Exploration for Natural Language Processing



- NLP applications: Sentiment analysis, language translation, text summarization.
- Voice assistants and speech recognition.

AI Exploration for Computer Vision



- Computer Vision applications in object detection, facial recognition, and autonomous vehicles.
- Enhancing surveillance and security systems using AI.



AI Exploration for Business Intelligence

- Leveraging AI for data analysis, visualization, and predictive modeling.
- Making data-driven decisions using AI-powered BI tools.

AI Exploration for Predictive Analysis



- Predictive analytics for forecasting sales, demand, and market trends.
- Identifying patterns and insights from historical data.

AI Exploration for Employee Performance Analysis



- AI-driven performance evaluation, feedback, and personalized development plans.
- Enhancing employee productivity and engagement.

AI Exploration for AI-Powered Talent Acquisition



- AI in candidate sourcing and screening.
- Reducing bias in the hiring process with AI-based solutions.



**ENRICHING YOUR
TOOLKIT**

AI Tools for Research and Writing

Zotero - Reference manager that helps researchers organize sources.

<https://www.zotero.org/>

Grammarly - Writing assistant that checks grammar, style, and tone.

<https://www.grammarly.com/>

QuillBot - Paraphrasing tool for rephrasing sentences and improving writing.

<https://quillbot.com/>

AI Tools for Research and Writing

Ref-N-Write - AI-based academic writing assistant for research and writing.

<https://www.ref-n-write.com/>

DeepL - Advanced AI-powered translation for research and education. (Free Trial)

<https://www.deepl.com/>

Legal Research

<https://anycase.ai/>

AI Tools for Note-Taking and Organization

Sider.AI Audio to Text (Ex. YouTube summary)

<https://sider.ai/>

AI Tools for Language Learning and Tutoring

Duolingo - Language learning app with gamified AI lessons.

<https://www.duolingo.com/>

Speechify - Text-to-speech app useful for auditory learners and reading support.

<https://speechify.com/>

Readlang - Reading tool that translates words and phrases while reading.

<https://readlang.com/>

AI Tools for Interactive Education and STEM

Wolfram Alpha - Computational engine for math, science, and general knowledge.

<https://www.wolframalpha.com/>

Desmos - Interactive graphing calculator suitable for math educators.

<https://www.desmos.com/>

GeoGebra - Interactive geometry, algebra, and calculus tools.

<https://www.geogebra.org/>

Khan Academy - Online educational resource with AI-powered personalized learning.

<https://www.khanacademy.org/>

Virtual lab simulations for science students.

<https://phet.colorado.edu/>

<https://chemcollective.org/>

Home Economics sites

<https://www.eatthismuch.com/>

Canva - Online design tool with templates for presentations, infographics, and more.

<https://www.canva.com/>

SlidesAI - AI-powered tool that generates slides from text input.

<https://www.slidesai.io/>

Beautiful.ai - AI-driven presentation maker that helps structure and visualize ideas.

<https://www.beautiful.ai/>

Presentation AI - Slide generator

<https://www.presentations.ai/>

AI Tools for Studying and Knowledge Retention

Quizlet – Flashcard-based study tool with AI-powered learning modes.

<https://quizlet.com/>

Brainly – Homework help community powered by AI and crowdsourced answers.

<https://brainly.com/>

Knowt – AI-powered note-taking and flashcard app that transforms notes into quizzes.

<https://knowt.io/>

AI Tools for Creative and Art Projects

DALL-E - AI tool by OpenAI for generating images from textual descriptions.

<https://openai.com/dall-e>

DeepArt - Turns photos into artwork using AI style transfers.

<https://deepart.io/>

Runway ML - AI tool for creating video and image projects.

<https://runwayml.com/>

AI Tools Collection

<https://galaxy.ai/tools>

<https://www.insidr.ai/ai-tools/>

<https://www.futuretools.io/>

BONUS SECTION



Table Of Content

- SSO with Google and Facebook
- Sharing with Github
- *getting more published resources
- ChatGPT, Claude, Gemini and Bing.ai
- MS Office AI Plugins
- Rechecking saved passwords
- Checking suspicious files and URLs

PROCESS AUTOMATION

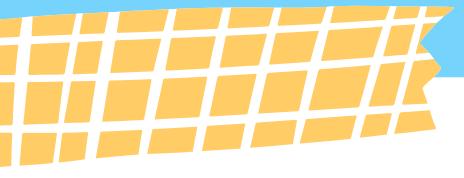
OPTIMIZING WORKFLOWS TO ENHANCE
PRODUCTIVITY AND REDUCE COSTS





PROCESS AUTOMATION DEMO

Q&A Session



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Thank you!

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