

Intelligent World

The image features a central glowing brain composed of intricate circuitry, with vibrant blue, purple, and pink light trails radiating from it. This brain is positioned above an open book, from which the circuitry appears to emerge. The background is a dark, starry space filled with various digital icons, including gears, data charts, and abstract patterns, all set against a backdrop of glowing blue and purple light trails.

**UNDERSTAND AI:
Your First Step
into the FUTURE**

Javier Dagand

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Your First Step into the Future**

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Foreword

A few years ago, talking about artificial intelligence sounded like something out of a science fiction movie. Smart robots, virtual assistants that understand us, and self-driving cars all seemed like distant ideas.

But today, artificial intelligence is already here—and it's transforming the world at an incredible speed.

Education, medicine, art, music, science, and even our conversations on social media are now influenced by AI.

We're living in a pivotal moment in history, where understanding how this technology works will determine who leads the future—and who gets left behind.

This book isn't about complicated code or boring theories.

Although it's written with young people in mind, it's a simple, clear, and engaging guide for **anyone**—regardless of age or prior knowledge—who wants to understand artificial intelligence, its opportunities, and how to use it wisely and responsibly.

If you've ever wondered:

- What is AI really, and how does it work?
- How does it affect my everyday life without me even noticing?
- What kind of jobs will exist in the AI era?
- How can I use it to learn, create, and improve my skills?

Then this book is for you.

It doesn't matter if you want to be a programmer, an artist, a doctor, or an entrepreneur—**understanding AI will be a key skill in any future career.**

So get ready.

You're about to embark on a fascinating journey to explore the world of AI—and become a genius of the future. 🚀

Introduction: Welcome to the Future

In recent years, artificial intelligence (AI) has gone from being just a science fiction concept to becoming an essential part of our daily lives.

If you have a phone with a voice assistant, use filters on social media, or watch Netflix recommendations, you're already interacting with AI without even realizing it.

But what exactly is artificial intelligence? How does it work? And why is it so important for you to understand it?

What is Artificial Intelligence (explained simply)

Artificial intelligence is a technology that allows machines to "think" and learn in a way similar to humans.

It's not magic, and it's not some far-off future—it's already here, helping with tasks like translating languages, recognizing faces in photos, and even diagnosing illnesses.

Imagine you have a robot at home that helps you with your homework every day. At first, it doesn't know much, but over time, it learns from your questions and improves its answers.

AI works in a similar way: it analyzes information, detects patterns, and improves with practice.

How AI is Already Part of Our Everyday Lives

Have you ever wondered why your music app recommends songs you like, or how Google finishes your sentences before you do?

The answer is simple: artificial intelligence.

Here are just a few ways you already use AI without realizing it:

- ✓ **Social media:** Algorithms choose which posts appear first in your feed.
- ✓ **Video games:** AI controls non-player characters (NPCs) to make them act smart.
- ✓ **Virtual assistants:** Siri, Alexa, and Google Assistant understand what you say and respond.
- ✓ **Automatic translation:** Tools like Google Translate get better over time thanks to AI.
- ✓ **Health and medicine:** Some apps can detect diseases in X-rays better than human doctors.

AI is everywhere—but the big difference is between those who just use it and those who understand it.

Those who understand AI will have many more opportunities in the future.

Why It's Important to Understand and Learn to Use AI


The world is changing fast, and artificial intelligence is transforming almost every industry.

From education to medicine, from art to technology—AI will be a key part of the future.

If you learn how it works and how to use it, you'll have a huge advantage.

It's not about being an expert programmer—it's about understanding the impact of AI and learning how to use it wisely.

This book will guide you through the world of AI in a clear and simple way, showing you how it works, what opportunities it offers, and why it's important for you to understand it—so you don't get left behind.

So get ready, because in the next pages, you'll discover a fascinating universe that's already changing the world. Let's go! 

The History and Present of AI

Artificial intelligence may seem like something new, but in reality, the idea of creating machines that think like humans has been around for centuries.

From ancient myths about automatons to robots in science fiction movies, humanity has always dreamed of building artificial intelligence.

In this chapter, we'll explore how AI first emerged, the key milestones in its development, and how it has evolved to become part of our daily lives.

How Artificial Intelligence Emerged

Although AI as we know it today is the result of recent technological advances, the idea of creating “intelligent artificial beings” has existed for centuries.

In Greek mythology, the god Hephaestus built metal automatons to assist him.

During the Middle Ages, inventors created mechanical figures that mimicked human movements.

However, artificial intelligence as a field of study began in **1956**, when a group of scientists held the first conference on the subject at Dartmouth College in the United States.

It was there that the term “*artificial intelligence*” was used for the first time, and the possibility was proposed that machines could learn like humans do.

The earliest AI experiments were based on computer programs that followed fixed rules, but over time, more advanced models were developed—capable of learning on their own.

Key Moments in the Development of AI

Throughout history, there have been major milestones that marked the progress of artificial intelligence:

✓ **1956 – AI is born:** The term is used for the first time at the Dartmouth conference.

✓ **1966 – First chatbot:** ELIZA is created—a program that simulated human conversation.

✓ **1997 – AI beats chess champion:** The supercomputer Deep Blue defeats world champion Garry Kasparov.

✓ **2011 – AI on TV:** IBM's AI system, Watson, wins the game show *Jeopardy!* against human contestants.

✓ **2016 – AI beats Go champion:** AlphaGo, by Google DeepMind, defeats the

world's best Go player—a game more complex than chess.

✅ **2022 – Generative AI:** Tools like ChatGPT, DALL·E, and MidJourney gain popularity, capable of creating text, images, and video.

These breakthroughs helped AI move from being just a lab experiment to becoming a tool we use every day.

AI in Video Games, Social Media, and Virtual Assistants

Today, artificial intelligence is everywhere.

Whether you're playing video games, scrolling through social media, or using a virtual assistant—AI is working behind the scenes to enhance your experience.

🎮 **Video games:** AI makes non-player characters (NPCs) smarter and more realistic. Games like *FIFA*, *Grand Theft Auto*, and *The Legend of Zelda* use AI to improve gameplay.

📱 **Social media:** AI algorithms decide what content to show you on TikTok, Instagram, and YouTube based on your interests.

🗣️ **Virtual assistants:** Alexa, Siri, and Google Assistant use AI to understand what you say and respond intelligently.

💡 **Automatic translation:** Tools like Google Translate have improved thanks to AI, allowing for more accurate translations.

Artificial intelligence is no longer just science fiction—it's here, transforming our daily lives.

And the most exciting part? We're only at the beginning of what AI can truly achieve.

In the next chapter, we'll explore how artificial intelligence actually works—and what makes it so powerful. 🚀

How Artificial Intelligence Works

Chances are, you've already used artificial intelligence many times without even realizing it.

But how exactly does a machine "think"? How can an app recommend songs, translate texts, or beat a world chess champion?

In this chapter, we'll clearly and simply explain how AI works, the differences between its main types, and what it really means for a machine to "learn."

Basic Explanation of AI Models

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