



For elementary school children...  
and not just for them!

# AI Adventures: Explore the Future

Join us on a thrilling journey to discover the magic of AI!

Barbora Stetinova & Matthew Knop

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**Written and illustrated by:**

Barbora Štětinová, Matthew Knop

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# Introduction

Hello to all young AI enthusiasts! We are Barbora Stetinova and my son Matthew. Together, we created this book to take you on a magical adventure into the fascinating world of Artificial Intelligence (AI). As a team, we bring a blend of acquired knowledge and youthful creativity to explain some incredible technological topics!

In this booklet, you will find chapters about how computers work, the wonders of AI, including how it learns and becomes smarter over time. I, Barbora, will guide you through the theoretical parts, like machine learning and the mysteries of neural networks. Meanwhile, Matthew will share his hands-on experiences and describe his experiments with ChatGPT!

From understanding the basic building blocks of computers in our first chapter to exploring advanced concepts like generative AI and neural networks, we aim to provide you with a clear and enjoyable journey of discovery.

**Let's dive in and explore the incredible possibilities that AI offers!**

*Barbora & Matthew*



# Content

- ✱ Computers and Programming
- ✱ Artificial Intelligence
- ✱ Machine Learning
- ✱ Artificial Neural Networks
- ✱ AI workshop I
- ✱ Generative AI
- ✱ AI workshop II
- ✱ Safety



# Computers and Programming



# What is a computer

Hey kids! Before we jump into super cool stuff like AI, let's talk about something you see almost every day - a **computer**!

A computer is a bit like a super smart helper that can do tons of cool things.



It's the same as having a magical box that helps us to solve math problems, draw pictures, write stories, and even play music and videos - that's exactly what a computer does. It's like a wizard in a box that can do almost anything you can imagine!

# What is a computer

A computer is a device that can take instructions and solve tasks.

Computers come in many shapes and sizes.



There are **desktop computers**, ....



... **laptops**, which are smaller and can be carried with us,



... same as tablets and mobile phones,



.... or **embedded computers**, which can be found almost everywhere, for example in cars.



Did you know that the first computer filled an entire room?