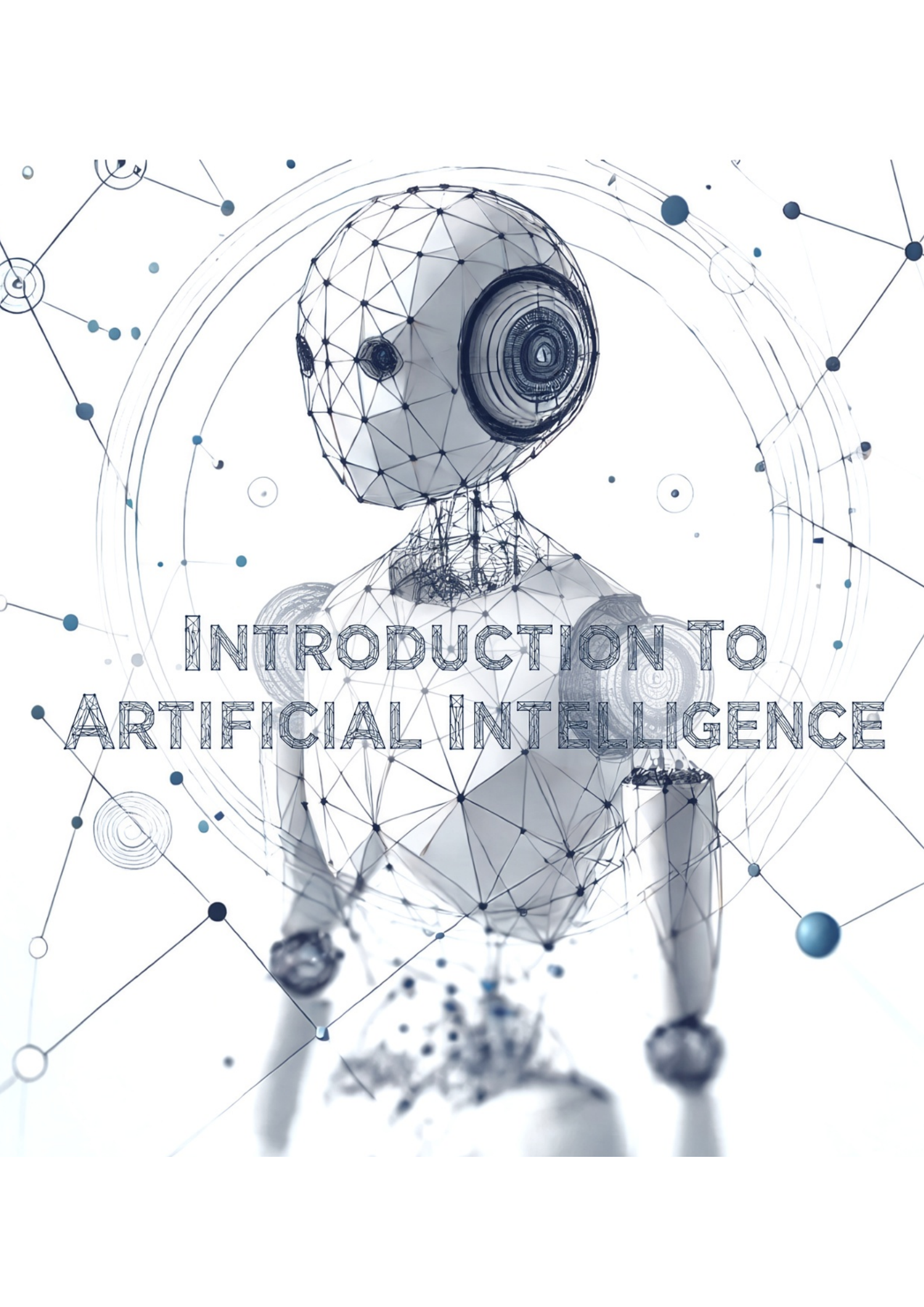




INTRODUCTION TO ARTIFICIAL INTELLIGENCE

Preface

Artificial Intelligence is more important than ever before. It has become an integral part of many products and our daily lives, even replacing certain labor tasks. With the advent of powerful technologies like large language models, the field is evolving rapidly. In this book, we will explore fundamental algorithms, techniques, and key principles of AI, from machine learning and deep learning to large language models and agentic AI. A central focus is on the implementation and application of AI methods. We will not only cover the algorithmic foundations but also emphasize practical aspects, reinforcing understanding through hands-on exercises and real-world examples.

Oliver Kramer
Oldenburg, October 16, 2026

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