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A Practical Approach for Building Real-World AI Systems Using Deep Learning



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Call for Chapters

A Practical Approach for Building Real-World AI Systems Using Deep Learning

Aims and Scope:

The aim of this book is to provide a practical and hands-on approach to building AI systems using deep learning techniques that can be applied in real-world scenarios. With AI becoming integral to various industries such as healthcare, finance, retail, and autonomous systems, it is crucial to understand how to effectively design, train, deploy, and maintain deep learning models at scale. This guide will bridge the gap between theoretical knowledge and industry applications, offering insights into the full lifecycle of AI system development—from data collection and model building to deployment and performance optimization.

The scope covers foundational deep learning techniques, the tools and frameworks necessary for implementation, and best practices for scaling models in production environments. Special emphasis is placed on practical challenges, including managing large datasets, ensuring model interpretability, and adhering to ethical AI principles. Readers will also learn how to select the appropriate deep learning architectures, optimize models for efficiency, and address common pitfalls in building AI systems

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