

# Quantum Machine Learning: What Quantum Computing Means to Data Mining (Elsevier Insights)

Peter Wittek



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*Quantum Machine Learning* bridges the gap between abstract developments in quantum computing and the applied research on machine learning. Paring down the complexity of the disciplines involved, it focuses on providing a synthesis that explains the most important machine learning algorithms in a quantum framework. Theoretical advances in quantum computing are hard to follow for computer scientists, and sometimes even for researchers involved in the field. The lack of a step-by-step guide hampers the broader understanding of this emergent interdisciplinary body of research.

*Quantum Machine Learning* sets the scene for a deeper understanding of the subject for readers of different backgrounds. The author has carefully constructed a clear comparison of classical learning algorithms and their quantum counterparts, thus making differences in computational complexity and learning performance apparent. This book synthesizes of a broad array of research into a manageable and concise presentation, with practical examples and applications.

- Bridges the gap between abstract developments in quantum computing with the applied research on machine learning
- Provides the theoretical minimum of machine learning, quantum mechanics, and quantum computing
- Gives step-by-step guidance to a broader understanding of this emergent interdisciplinary body of research

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