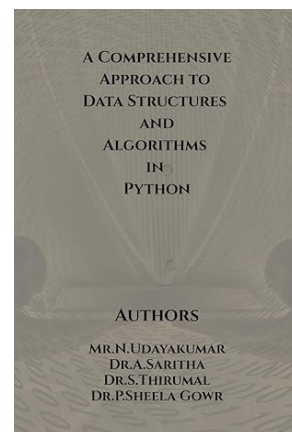


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Unlock the power of Python through the lens of essential computer science fundamentals. This book offers a fresh, Python-centric take on data structures and algorithms, drawing inspiration from the acclaimed works Data Structures and Algorithms in Java and Data Structures and Algorithms in C++ by Goodrich and Tamassia. But this is far more than a simple translation—it is a complete reimagining tailored for the Python language.

Designed for students, educators, and professionals alike, this book presents core concepts with clarity, depth, and practical implementation. Algorithms previously expressed in pseudocode are now fully realized in idiomatic Python, while data structures are built to align with Python's dynamic typing, built-in collections, and object-oriented design.

Notably, the book delves deeply into how Python's native types—like list, tuple, and str—work under the hood, offering readers a behind-the-scenes look in Chapter 5 and an all-new Appendix A. Throughout the text, over 450 detailed illustrations bring complex ideas to life, making it easier than ever to grasp fundamental and advanced topics.

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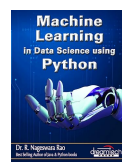
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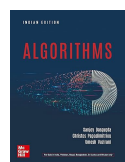
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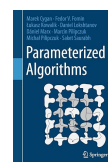
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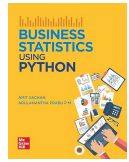
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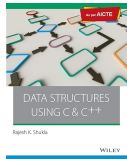
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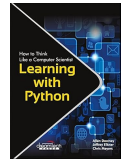
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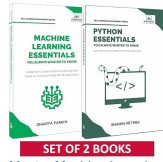
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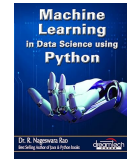
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