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Deep Learning in Genetics and Genomics: Volume 1: Foundations and Introductory Applications 1st Edition

"Deep Learning in Genetics and Genomics: Volume 1: Foundations and Introductory Applications," authored by A. M. M. B. de S. C. B. da Silva, is a groundbreaking first edition published by Academic Press, with ISBN 978-0128193755. This comprehensive volume serves as an essential resource for researchers and practitioners in the fields of genetics and genomics, illustrating the transformative power of deep learning technologies in analyzing complex biological data. The book meticulously lays the groundwork of deep learning principles and their applicability to a variety of genomic datasets, ranging from DNA sequencing to gene expression analysis. Readers will explore a range of introductory applications that highlight the significance of machine learning techniques in accelerating discoveries in genomics, including disease prediction, gene identification, and personalized medicine. With a focus on clarity and practical implementation, the author provides step-by-step guidance on how to leverage deep learning algorithms, bridging the gap between theoretical knowledge and real-world application. This volume not only equips readers with foundational knowledge but also addresses contemporary challenges in the field, making it a vital addition to the library of anyone interested in the intersection of artificial intelligence and biological research. Whether you are a seasoned researcher or a newcomer to the field, this book offers valuable insights and the necessary tools to harness deep learning technologies in your genomic studies. Dive into the future of genetics with "Deep Learning in Genetics and Genomics," and discover how these advanced computational techniques are reshaping our understanding of biology at a molecular level.