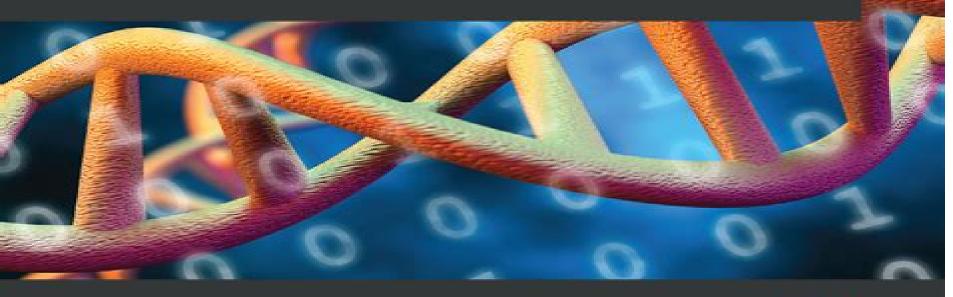
Bioinformatics with Python Cookbook

Third Edition

Use modern Python libraries and applications to solve real-world computational biology problems



Bioinformatics With Python Cookbook

Tiago Antao

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You ll also have all the tools you need to pursue any additional functional topics that are not part of the Python language What you will learnUse Python's libraries to avoid the complexities of state changing classesLeverage built in higher order functions to avoid rewriting common algorithms. Write generator functions to create lazy processing. Design and implement decorators for functional compositionMake use of Python type annotations to describe parameters and results of functionsApply functional programming to concurrency and web servicesExplore the PyMonad library for stateful simulations. Who this book is for The functional paradigm is very useful for programmers working in data science but any Python developer who wants to create more reliable succinct and expressive code will have much to learn from this book No prior knowledge of functional programming is required to get started though Python programming knowledge is assumed A running Python environment is essential Fast Python Tiago Antao, 2023-07-04 Master Python techniques and libraries to reduce run times efficiently handle huge datasets and optimize execution for complex machine learning applications Fast Python is a toolbox of techniques for high performance Python including Writing efficient pure Python code Optimizing the NumPy and pandas libraries Rewriting critical code in Cython Designing persistent data structures Tailoring code for different architectures Implementing Python GPU computing Fast Python is your guide to optimizing every part of your Python based data analysis process from the pure Python code you write to managing the resources of modern hardware and GPUs You ll learn to rewrite inefficient data structures improve underperforming code with multithreading and simplify your datasets without sacrificing accuracy Written for experienced practitioners this book dives right into practical solutions for improving computation and storage efficiency You ll experiment with fun and interesting examples such as rewriting games in Cython and implementing a MapReduce framework from scratch Finally you ll go deep into Python GPU computing and learn how modern hardware has rehabilitated some former antipatterns and made counterintuitive ideas the most efficient way of working About the Technology Face it Slow code will kill a big data project Fast pure Python code optimized libraries and fully utilized multiprocessor hardware are the price of entry for machine learning and large scale data analysis What you need are reliable solutions that respond faster to computing requirements while using less resources and saving money About the Book Fast Python is a toolbox of techniques for speeding up Python with an emphasis on big data applications Following the clear examples and precisely articulated details you ll learn how to use common libraries like NumPy and pandas in more performant ways and transform data for efficient storage and I O More importantly Fast Python takes a holistic approach to performance so you ll see how to optimize the whole system from code to architecture What s Inside Rewriting critical code in Cython Designing persistent data structures Tailoring code for different architectures Implementing Python GPU computing About the Reader For intermediate Python programmers familiar with the basics of concurrency About the Author Tiago Ant o is one of the co authors of Biopython a major bioinformatics package written in Python Table of Contents PART 1 FOUNDATIONAL APPROACHES 1 An urgent need for efficiency in data processing 2

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