



Exploring Bioinformatics: A Project-Based Approach

By Caroline St. Clair, Jonathan E. Visick

Download now

Read Online 

Exploring Bioinformatics: A Project-Based Approach By Caroline St. Clair, Jonathan E. Visick

Thoroughly revised and updated, *Exploring Bioinformatics: A Project-Based Approach, Second Edition* is intended for an introductory course in bioinformatics at the undergraduate level. Through hands-on projects, students are introduced to current biological problems and then explore and develop bioinformatic solutions to these issues. Each chapter presents a key problem, provides basic biological concepts, introduces computational techniques to address the problem, and guides students through the use of existing web-based tools and software solutions. This progression prepares students to tackle the On-Your-Own Project, where they develop their own software solutions. Topics such as antibiotic resistance, genetic disease, and genome sequencing provide context and relevance to capture student interest. With a focus on developing students' problem-solving skills, the Second Edition of *Exploring Bioinformatics: A Project-Based Approach* is a contemporary and comprehensive introduction to this rapidly growing field. New to the thoroughly updated Second Edition:

- Offers a flexible approach to understanding key bioinformatics algorithms with exercises that can be used with or without programming.
- For programming courses, pseudocode allows students to implement algorithms in any desired programming language.
- Includes more substantive web-based projects for a more comprehensive, hands-on introduction to bioinformatics in non-programming courses.
- Contains updated material reflecting changes in how bioinformatics is used: next-generation sequencing, metagenomic analysis, statistical methods, etc.
- Contains more instructive and relevant case studies as well as more cohesive connections between the case studies and the exercises.

 [Download Exploring Bioinformatics: A Project-Based Approach ...pdf](#)

 [Read Online Exploring Bioinformatics: A Project-Based Approa ...pdf](#)

Exploring Bioinformatics: A Project-Based Approach

By Caroline St. Clair, Jonathan E. Visick

Exploring Bioinformatics: A Project-Based Approach By Caroline St. Clair, Jonathan E. Visick

Thoroughly revised and updated, *Exploring Bioinformatics: A Project-Based Approach*, Second Edition is intended for an introductory course in bioinformatics at the undergraduate level. Through hands-on projects, students are introduced to current biological problems and then explore and develop bioinformatic solutions to these issues. Each chapter presents a key problem, provides basic biological concepts, introduces computational techniques to address the problem, and guides students through the use of existing web-based tools and software solutions. This progression prepares students to tackle the On-Your-Own Project, where they develop their own software solutions. Topics such as antibiotic resistance, genetic disease, and genome sequencing provide context and relevance to capture student interest. With a focus on developing students' problem-solving skills, the Second Edition of *Exploring Bioinformatics: A Project-Based Approach* is a contemporary and comprehensive introduction to this rapidly growing field. New to the thoroughly updated Second Edition:

- Offers a flexible approach to understanding key bioinformatics algorithms with exercises that can be used with or without programming.
- For programming courses, pseudocode allows students to implement algorithms in any desired programming language.
- Includes more substantive web-based projects for a more comprehensive, hands-on introduction to bioinformatics in non-programming courses.
- Contains updated material reflecting changes in how bioinformatics is used: next-generation sequencing, metagenomic analysis, statistical methods, etc.
- Contains more instructive and relevant case studies as well as more cohesive connections between the case studies and the exercises.

Exploring Bioinformatics: A Project-Based Approach By Caroline St. Clair, Jonathan E. Visick **Bibliography**

- Sales Rank: #896355 in Books
- Brand: imusti
- Published on: 2013-12-26
- Original language: English
- Number of items: 1
- Dimensions: 9.90" h x .70" w x 7.00" l, .0 pounds
- Binding: Paperback
- 300 pages

 [Download Exploring Bioinformatics: A Project-Based Approach ...pdf](#)

 [Read Online Exploring Bioinformatics: A Project-Based Approa ...pdf](#)

Editorial Review

Users Review

From reader reviews:

Ivan Caputo:

Here thing why this Exploring Bioinformatics: A Project-Based Approach are different and reputable to be yours. First of all reading through a book is good however it depends in the content from it which is the content is as delicious as food or not. Exploring Bioinformatics: A Project-Based Approach giving you information deeper since different ways, you can find any reserve out there but there is no book that similar with Exploring Bioinformatics: A Project-Based Approach. It gives you thrill examining journey, its open up your personal eyes about the thing that happened in the world which is might be can be happened around you. It is easy to bring everywhere like in park your car, café, or even in your technique home by train. If you are having difficulties in bringing the imprinted book maybe the form of Exploring Bioinformatics: A Project-Based Approach in e-book can be your choice.

John Oliver:

The ability that you get from Exploring Bioinformatics: A Project-Based Approach could be the more deep you excavating the information that hide inside words the more you get serious about reading it. It doesn't mean that this book is hard to be aware of but Exploring Bioinformatics: A Project-Based Approach giving you enjoyment feeling of reading. The copy writer conveys their point in a number of way that can be understood by simply anyone who read the idea because the author of this guide is well-known enough. That book also makes your vocabulary increase well. It is therefore easy to understand then can go to you, both in printed or e-book style are available. We suggest you for having this Exploring Bioinformatics: A Project-Based Approach instantly.

Jose Rivera:

Do you one of the book lovers? If so, do you ever feeling doubt when you find yourself in the book store? Aim to pick one book that you just dont know the inside because don't evaluate book by its handle may doesn't work at this point is difficult job because you are frightened that the inside maybe not because fantastic as in the outside search likes. Maybe you answer may be Exploring Bioinformatics: A Project-Based Approach why because the excellent cover that make you consider in regards to the content will not disappoint an individual. The inside or content is usually fantastic as the outside as well as cover. Your reading 6th sense will directly make suggestions to pick up this book.

Meghan Drucker:

Do you like reading a e-book? Confuse to looking for your best book? Or your book has been rare? Why so many query for the book? But any people feel that they enjoy with regard to reading. Some people likes studying, not only science book but additionally novel and Exploring Bioinformatics: A Project-Based Approach as well as others sources were given knowledge for you. After you know how the truly great a book, you feel desire to read more and more. Science reserve was created for teacher or students especially. Those ebooks are helping them to add their knowledge. In other case, beside science publication, any other book likes Exploring Bioinformatics: A Project-Based Approach to make your spare time a lot more colorful. Many types of book like this.

**Download and Read Online Exploring Bioinformatics: A Project-Based Approach By Caroline St. Clair, Jonathan E. Visick
#P5OTS4MNWKX**

Read Exploring Bioinformatics: A Project-Based Approach By Caroline St. Clair, Jonathan E. Visick for online ebook

Exploring Bioinformatics: A Project-Based Approach By Caroline St. Clair, Jonathan E. Visick Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Exploring Bioinformatics: A Project-Based Approach By Caroline St. Clair, Jonathan E. Visick books to read online.

Online Exploring Bioinformatics: A Project-Based Approach By Caroline St. Clair, Jonathan E. Visick ebook PDF download

Exploring Bioinformatics: A Project-Based Approach By Caroline St. Clair, Jonathan E. Visick Doc

Exploring Bioinformatics: A Project-Based Approach By Caroline St. Clair, Jonathan E. Visick Mobipocket

Exploring Bioinformatics: A Project-Based Approach By Caroline St. Clair, Jonathan E. Visick EPub

P5OTS4MNWKX: Exploring Bioinformatics: A Project-Based Approach By Caroline St. Clair, Jonathan E. Visick