Mindluster Platform

About the course Data Analysis for Biologists

Data Analysis for Biologists course, In this course,\ we will learn about essential data analysis techniques tailored to biological research and applications.

Computer Science Category's Courses

Course Lesson(50)

Lesson 1 : **Data Analysis for Biologists Intro Video**

Lesson 2 : **Lec 1 Rules of probability**

Lesson 3 : **Lec 2 Discrete probability distribution**

Lesson 4 : **Lec 3 Continuous probability distribution**

Lesson 5 : **Lec 4 Moments mean and variance**

Lesson 6 : **Lec 5 Moments variance and covariance**

Lesson 7 : **Lec 6 Bayes theorem and likelihood**

Lesson 8 : **Lec 7 Concept of statistical tests**

Lesson 9 : **Lec 8 Vector and vector operations**

Lesson 10 : **Lec 9 Matrix and matrix operations**

Lesson 11 : **Lec 10 Determinant and Inverse of a matrix**

Lesson 12 : **Lec 11 Eigenvalue and eigenvector**

Lesson 13 : **Lec 12 Linear system of equations**

Lesson 14 : **Lec 13 Singular value decomposition**

Lesson 15 : **Lec 14 Getting ready with R**

Lesson 16 : **Lec 15 Algebraic and logical operations in R**

Lesson 17 : **Lec 16 Reading and writing data**

Lesson 18 : **Lec 17 Statistics using R â€“ descriptive statistics**

Lesson 19 : **Lec 18 Statistics using R â€“ t test and ANOVA**

Lesson 20 : **Lec 19 Linear algebra using R**

Lesson 21 : **Lec 20 Scatter plot Line plot Bar plot**

Lesson 22 : **Lec 21 Histogram Box plot**

Lesson 23 : **Lec 22 Heatmap and Volcano plot**

Lesson 24 : **Lec 23 Network visualization**

Lesson 25 : **Lec 24 Data visualization using ggplot2 I**

Lesson 26 : **Lec 25 Data visualization using ggplo2 II**

Lesson 27 : **Lec 26 Correlations**

Lesson 28 : **Lec 27 Linear regression I**

Lesson 29 : **Lec 28 Linear regression II**

Lesson 30 : **Lec 29 Linear regression using R**

Lesson 31 : **Lec 30 Multiple linear regression**

Lesson 32 : **Lec 31 Multiple linear regression using R**

Lesson 33 : **Lec 32 Nonlinear regression**

Lesson 34 : **Lec 33 Nonlinear regression using R**

Lesson 35 : **Lec 34 Clustering and classification**

Lesson 36 : **Lec 35 Logistic regression**

Lesson 37 : **Lec 36 Logistic regression using R**

Lesson 38 : **Lec 37 Distance mesaures for clustering**

Lesson 39 : **Lec 38 k means clustering**

Lesson 40 : **Lec 39 k means clustering using R**

Lesson 41 : **Lec 40 Hierarchical clustering**

Lesson 42 : **Lec 41 Hierarchical clustering using R**

Lesson 43 : **Lec 42 Decision tree classifier**

Lesson 44 : **Lec 43 Support vector machines**

Lesson 45 : **Lec 44 Higher dimensional data in biology**

Lesson 46 : **Lec 45 Principle component analysis**

Lesson 47 : **Lec 46 Principle component analysis using R**

Lesson 48 : **Lec 47 t SNE**

Lesson 49 : **Lec 48 t SNE using R**

Lesson 50 : **Lec 49 Diffusion maps**

Related courses

Linear Algebra for Computer Scientists

Insertion Sort

Bubble Sort

GCSE Computer Science

Random Access Memory

Binary Trees



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