

Introduction to Biostatistics

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What is Biostatistics?

- Derivation of insights from biological data using statistical methods.
- It is also known as Biometry

Key aspects of Biostatistics

- Data Analysis
- Experimental Design
- Hypothesis Testing
- Predictive Modelling
- Risk Assessment

Importance of Biostatistics in biological research

- Validity of Scientific findings
- Evidence-based decision making
- Handle complex data
- Facilitates interdisciplinary research

Roles and Responsibilities of Biostatisticians

- Study design
- Data Analysis
- Methodological development

Application of Biostatistics

- Clinical trials
- Survival analysis
- Categorical data analysis
- Genetic studies
- Public Health
- Epidemiology

Career prospects in Biostatistics

- Academia
- Government Agencies
- Pharmaceutical companies
- Research Institutions

Statistical softwares

- R
- Python
- Stata
- SPSS
- SAS

What this course is all about?

- Learn how to use statistical methods on biological data.
- How to use R to effectively derive insights from data.

Course Repository

<https://github.com/adejumoridwan/Biostatistics-with-R>