

# STATISTICA

## BRITISH FATHER OF STATISTICS



Sir Ronald A. Fisher was a British statistician, he was a geneticist who made significant contributions to statistical theory and methodology. He is best known for his work. He was also a pioneer in population genetics and helped establish the foundations of modern evolutionary theory. Fisher developed the Fisher Exact test, a statistical test used to determine the association between categorical variables in a contingency table. He was awarded many honors and awards in his lifetime, including being knighted in 1952.

## INDIAN FATHER OF STATISTICS



Prasanta Chandra Mahalanobis:  
He was a renowned Indian statistician who founded the Indian Statistical Institute in Kolkata. He developed the concept of "Mahalanobis distance", a statistical measure used in data analysis. Mahalanobis also contributed significantly to the development of statistical methods for complex surveys in India. He received numerous awards and honors for his contributions to statistics. He developed science and technology in India. He passed away in 1972, leaving behind a legacy of excellence in statistics.



## Actuarial Science

Actuarial Science assesses financial risks in the insurance and financial sectors, using mathematical and statistical methods. Actuarial Science applies probability, analysis and statistics to define, analyze, and solve the financial impact of uncertain future events.

Actuarial Science helps insurance companies forecast the probability of an event occurring to determine the funds needed to pay claims. The professionals who carry out these tasks of assessing, analyzing and providing solution of future uncertainties changing financial risks are the actuaries.

Actuaries have been called financial architects and social mathematicians, because their combined mathematical and business skills helps solve a growing variety of financial and social problems. The actuarial profession is a demanding yet rewarding career choice.



## Statistical Quality Control

A statistical Quality control system performs inspection, testing, and analysis to conclude whether the quality of each product is up to the quality standards or not. It's called "Statistical Quality Control". When statistical methods are employed to control production, SQC makes inspection more suitable at the same time, less costly.



## Biostatistics?

Biostatistics is the application of statistical techniques to scientific research in related fields, such as medicine, biology, and health.

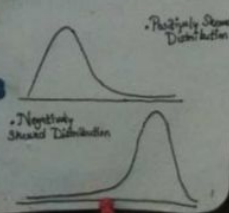


Since the beginning of the twentieth century, the field of statistics has become an indispensable tool in improving and reducing illness.

## What are the career prospects for Biostatistics Post graduates?

The prospects for biostatistics graduates are excellent, career opportunities in university research facilities, pharmaceutical and medical device companies.

## SKEWNESS

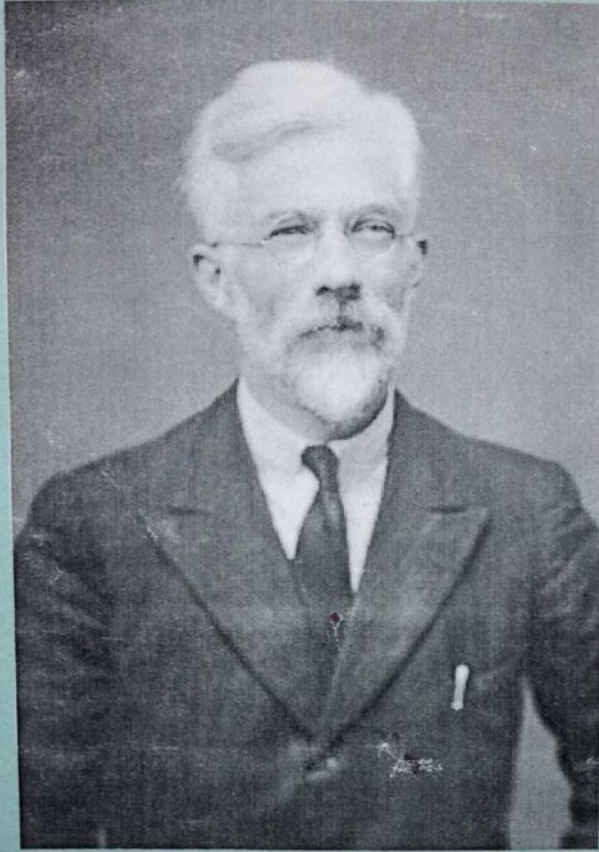


## WHAT IS "R"?

**R** is one of the latest coding languages. Today, millions of analysts, researchers, and brands such as Facebook, Google, Bing, Amazon, etc., are using "R" to solve complex issues. The Applications of R are not limited to just one domain, you can see the use of R in banking, insurance, finance, and many more sectors. This will help you familiar with the real life uses of the R programming language.



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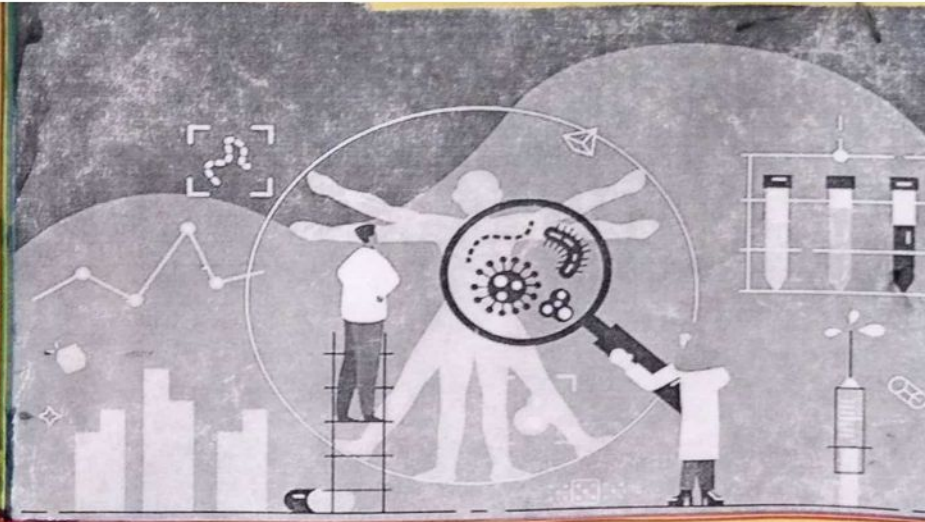
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27/4/2023

## What is Biostatistics?

Biostatistics is the application of statistical techniques to scientific research in health-related fields, including medicine, biology, and public health, and the development of new tools to study these areas. Since the beginning of the twentieth century, the field of biostatistics has become an indispensable tool in improving health and reducing illness.



## What are the career prospects for Biostatistics PSM graduates?

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### Probability:

Probability is the branch of mathematics that deals with the study of random events. In statistics, probability is used to describe the likelihood of events occurring and to quantify uncertainty.

### Calculus:

Calculus is the branch of mathematics that deals with rates of change and accumulation. Calculus is used in statistics to determine rates of change in data and to find the area under curves.

### Main Objectives:

Overall, mathematics provides the theoretical foundation for statistics and is essential for understanding.

# Actuarial Science.

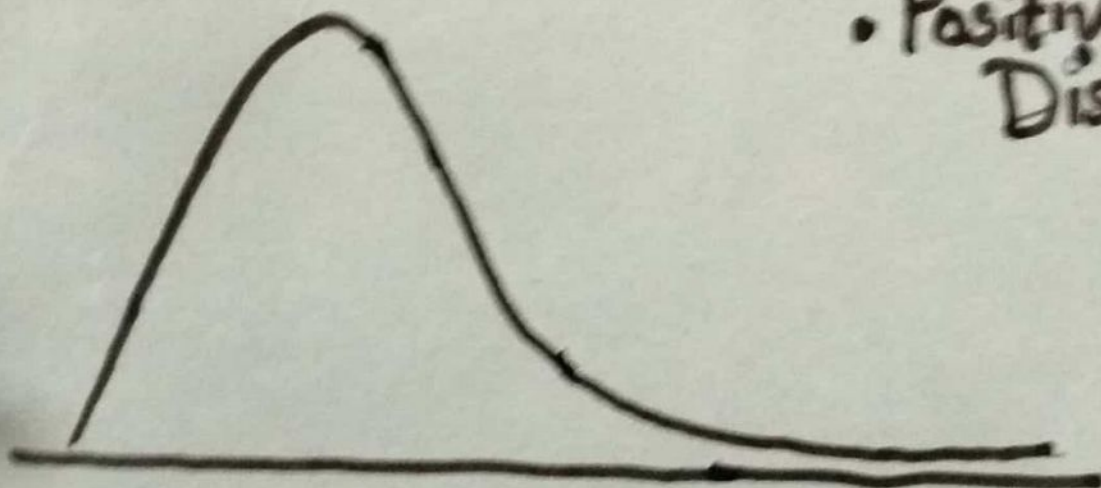
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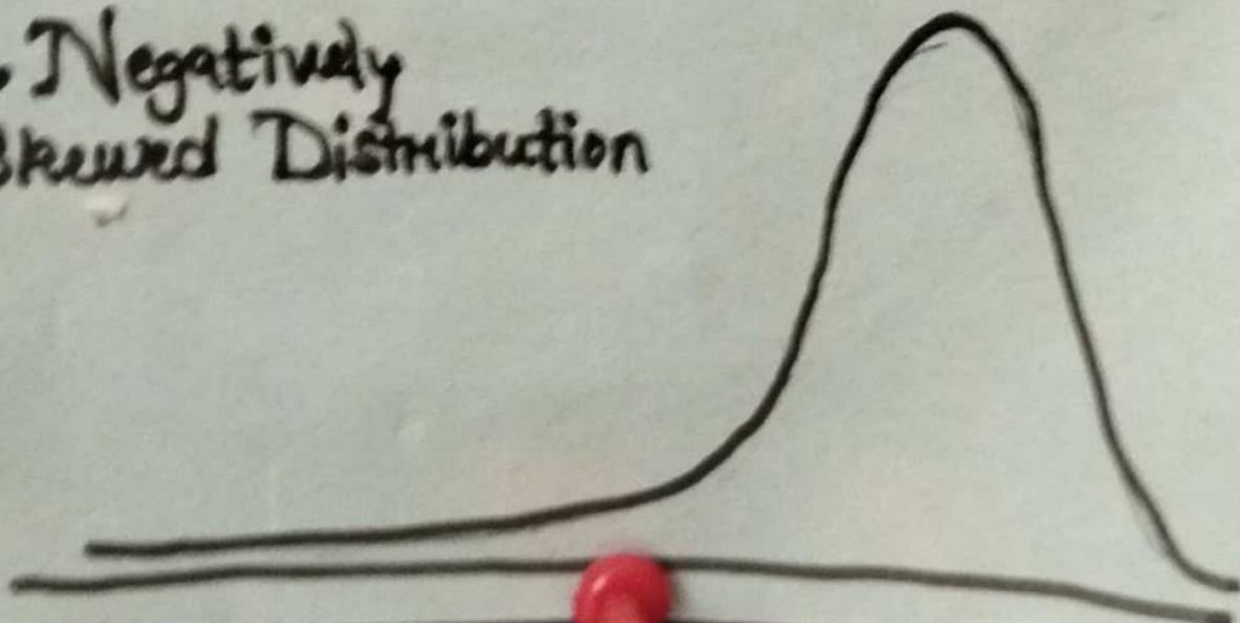
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# SKEWNESS

• Positively Skewed Distribution



• Negatively Skewed Distribution





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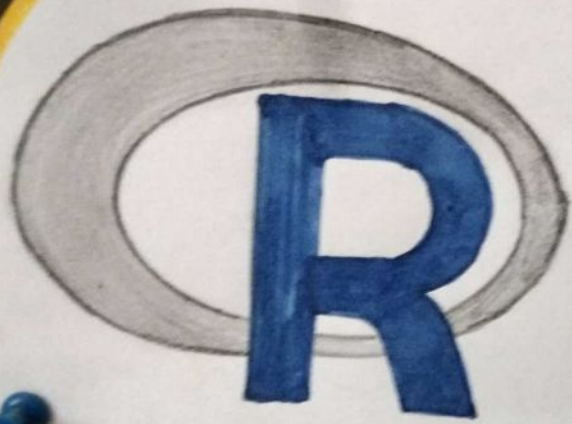


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