



TIC



▶ TALENTO
TECH

REGIÓN 3

CAUCA – NARIÑO

BOOTCAMP

ANÁLISIS DE DATOS





TIC



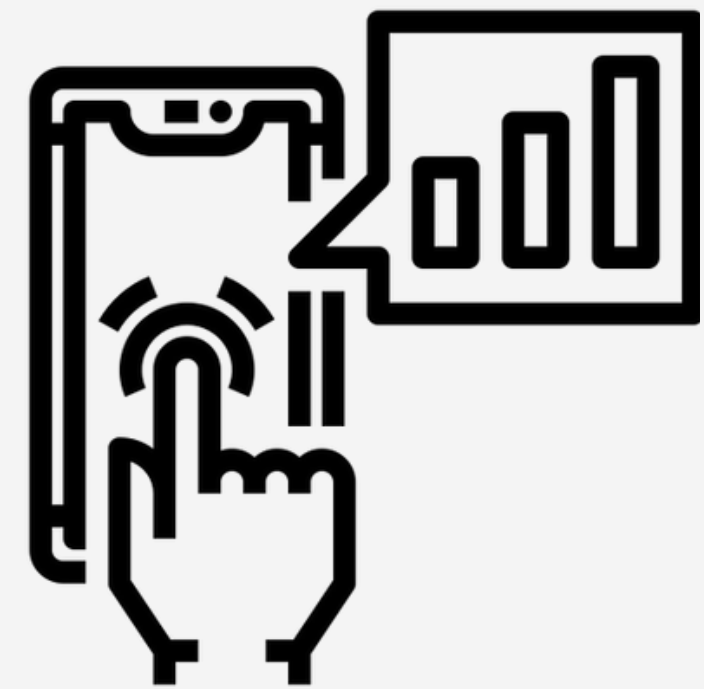
MÓDULO 1 NIVEL EXPLORADOR

Contextualización de mis aprendizajes



TIC

This module focuses on developing an understanding through readings of how to extract meaningful insights from data and guides learners through the intricacies of decision-making enhanced by data analysis, emphasizing the role of predictive modeling for optimization. It also explores the fundamentals of statistics and probability, and covers both descriptive and inferential statistical methods. Finally, this module delves into the study of probabilities and various types of distributions, all in the context of data analysis.

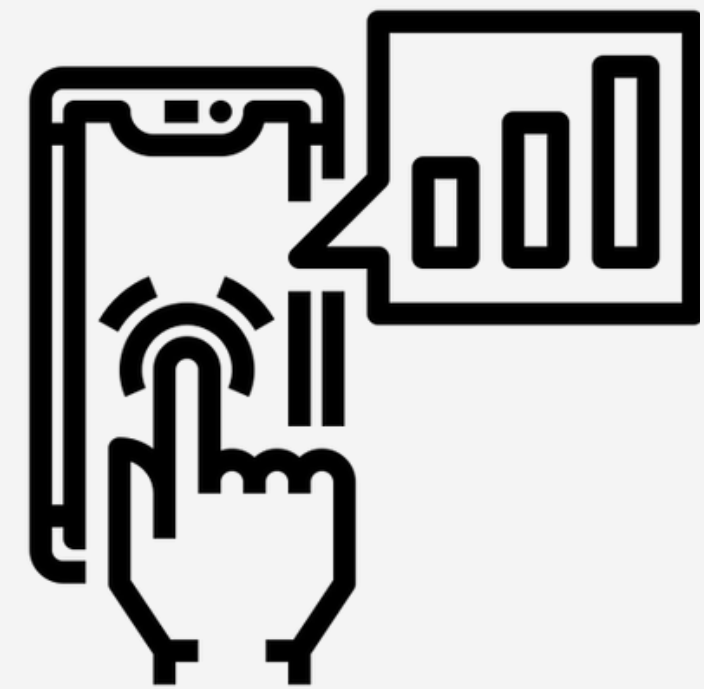


Contextualización de mis aprendizajes



TIC

In this module focused on statistical concepts, students will delve into the realm of data analysis through an exploration of key terms such as descriptive statistics, inferential statistics, and hypothesis testing. The learning journey encompasses understanding the fundamental principles behind these statistical approaches. Descriptive statistics will be examined to comprehend how data can be summarized and presented effectively, providing insights into central tendencies and variations. Inferential statistics will be explored to make predictions and draw inferences about a population based on a sample. Hypothesis testing, a critical aspect of statistical analysis, will be thoroughly examined to evaluate the validity of assumptions and draw meaningful conclusions from data. Through practical examples and exercises, students will not only enhance their statistical vocabulary but also develop the analytical skills necessary for sound decision-making in various fields.



Objetivo general



UNIDAD 1

- Develop a thorough understanding of key statistical terms, including descriptive statistics, inferential statistics, and hypothesis testing.
- Acquire the ability to interpret and apply these concepts in practical scenarios, laying the foundation for proficient data analysis

Competencias a desarrollar

- Linguistic competence.
- Pragmatic competence.
- Sociolinguistic competence.
- Topical Competence.

Linguistic Competence: Develop proficiency in the language of statistics, including the ability to articulate and comprehend key terms related to descriptive and inferential statistics, hypothesis testing, and data analysis.

Pragmatic Competence: Apply statistical concepts in practical contexts, demonstrating the ability to analyze data, draw meaningful conclusions, and make informed decisions.

Competencias a desarrollar

Sociolinguistic Competence: Understand the social context of statistical communication, recognizing how statistical information is used and interpreted in different societal and professional settings.

Topical Competence: Apply acquired knowledge to real for world situations, utilizing descriptive statistics summarizing data, inferential statistics for making predictions, and hypothesis testing for drawing meaningful conclusions. Develop practical skills in statistical analysis to support informed decision-making across diverse domains.

Activación de saberes previos

PLANTEAMIENTO DE LA SESIÓN

- 1) Socialize the technology idiom of the day.
- 2) Guess the word: game about statistics in data analysis.
- 3) Socialize keywords about the text below "Descriptive vs. Inferential Statistics: Key Differences and Measurement Techniques".
- 4) Reading: "Descriptive vs. Inferential Statistics: Key Differences and Measurement Techniques".
- 5) True/False questions about the previous reading.
- 6) Multiple-choice activity: quizizz game.
- 7) Watch the video "What Are Is Descriptive And Inferential Statistics – What Are The Different Branches Of Statistics".
- 8) Categorizing activity about the previous video.
- 9) Discuss vocabulary related to the text below: "What is Hypothesis Testing in Statistics? Types and Examples"
- 10) Reading: "What is Hypothesis Testing in Statistics? Types and Examples"

MATERIALES

- Reading: "Descriptive vs. Inferential and Statistics: Key Differences Techniques": Measurement
<https://www.simplilearn.com/difference-between-descriptive-inferential-statistics-article>
- **Video:** "What Are Is Descriptive And Inferential Statistics – What Are The Different Branches Of Statistics":
https://www.youtube.com/watch?v=rA0d_LwKMu0

Activación de saberes previos

PLANTEAMIENTO DE LA SESIÓN

11) Multiple-choice questions about the previous text

MATERIALES

- **Reading:** "What is Hypothesis Testing in Statistics? Types and Examples":
<https://www.simplilearn.com/tutorials/statistics-tutorial/hypothesis-testing-in-statistics#:~:text=Hypothesis%20Testing%20is%20a%20type,relationship%20between%202%20statistical%20variables.&text=A%20teacher%20assumes%20that%2060,lower%20middle%20class%20families>