TALENTO TECH

TIC

REGIÓN 3

CAUCA - NARIÑO

BOOTCAMP

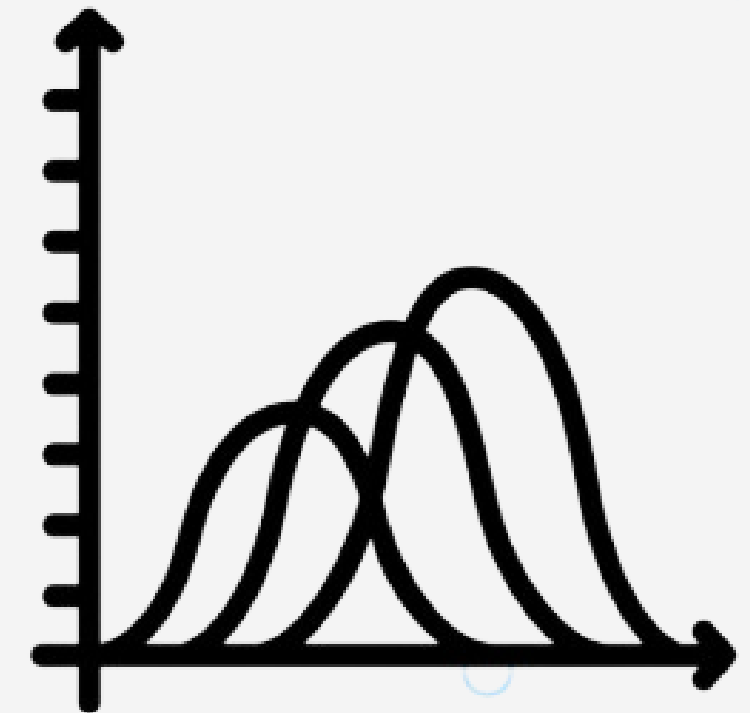**ENGLISH CODE**

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Contextualización de mis aprendizajes

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.
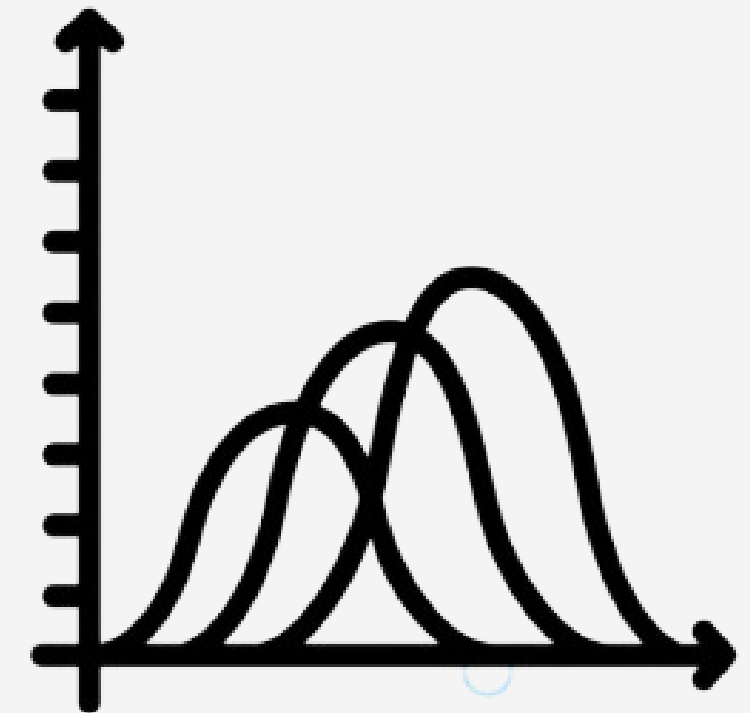
Contextualización de mis aprendizajes

In the module on "Text Analysis and Data Mining," students will delve into the realms of natural language processing (NLP) and data mining to enhance their reading and vocabulary skills. This comprehensive exploration will involve understanding the fundamental principles of text analysis, including techniques for extracting valuable information from large datasets of unstructured text. Students will be exposed to various applications of NLP in real-world scenarios, such as sentiment analysis, document classification, and information retrieval. Additionally, the module will build an extensive vocabulary related to text analysis and data mining, empowering students to comprehend and discuss complex concepts in this rapidly evolving field. Through engaging readings and practical exercises, participants will develop a solid foundation in the language and concepts essential for navigating the exciting intersection of linguistics and data science.

Objetivo general

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- Enhance vocabulary skills specific to the field of text analysis and data mining, enabling students to comprehend, articulate, and discuss intricate concepts related to NLP, data mining, and their practical applications.

Competencias a desarrollar

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

Linguistic Competence: Acquire proficiency in the specialized vocabulary and terminology associated with text analysis and data mining, demonstrating the ability to comprehend and produce texts related to these domains.

Pragmatic Competence: Develop practical skills in applying text analysis and data mining techniques, including hands-on experience with tools and technologies commonly used in the field. This involves the ability to pragmatically utilize acquired knowledge for real-world applications.

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Competencias a desarrollar

Sociolinguistic Competence: Understand the societal implications and ethical considerations surrounding text analysis and data mining. Gain awareness of how these technologies impact various communities and demonstrate the ability to engage in discussions about the social aspects of data-driven decision-making.

Topical Competence: Develop a comprehensive understanding of the fundamental principles of text analysis and data mining, including key techniques and methodologies employed in natural language processing (NLP) and extracting insights from extensive datasets.

Activación de saberes previos

PLANTEAMIENTO DE LA SESIÓN

1) Word jumble game: review/learn vocabulary of the reading "What is Text Analysis? A Beginner's Guide"
2) Review some vocabulary
3) Reading: What is Text Analysis? A Beginner's Guide"
4) Matching activity definition (previous reading).
5) Socialization key vocabulary reading activity #2 "What Is Text Mining? A Beginner's Guide"
6) Reading comprehension activity: "What Is Text Mining? A Beginner's Guide"
7) True/False/Doesn't say activity based on the previous reading

MATERIALES

- **Reading: "Text Preprocessing Techniques for NLP" https://ayselaydin.medium. com/1- text- preprocessing- techniques-for- nlp- 37544483c007**

Activación de saberes previos

PLANTEAMIENTO DE LA SESIÓN

8) Socialization key vocabulary reading activity #4: ""Text Preprocessing Techniques for NLP""
9) Reading comprehension activity #4: ""Text Preprocessing Techniques for NLP""
10) Multiple choice questions about the previous reading

MATERIALES