



TIC



▶ TALENTO
TECH

REGIÓN 3

CAUCA – NARIÑO

BOOTCAMP

ENGLISH CODE





TIC



MÓDULO 4 NIVEL INTEGRADOR

Contextualización de mis aprendizajes



TIC



This module focuses on imparting basic vocabulary and understanding of key concepts and texts in the field of Cloud Architecture Patterns and Cloud Native Patterns: Designing Change-Tolerant Software, Cloud Computing Explained, and The NIST Definition of Cloud Computing. The course structure integrates practical language exercises with an introduction to fundamental technical knowledge, making it suitable for those seeking to develop both their linguistic and technical proficiency in Cloud architecture.



Contextualización de mis aprendizajes



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In the rapidly evolving landscape of machine learning, understanding how to evaluate and assess the performance of models is fundamental to ensuring their efficacy and reliability. The course on Model Evaluation in Machine Learning provides learners with a comprehensive framework for critically analyzing and validating the predictive capabilities of machine learning algorithms. Through an exploration of various evaluation metrics, techniques, and methodologies, students gain insights into the strengths, limitations, and trade-offs inherent in different models. They learn to interpret evaluation results effectively, discerning between overfitting and underfitting, identifying biases and errors, and optimizing model performance. Moreover, learners delve into the significance of cross-validation, learning curves, and hyperparameter tuning in refining model accuracy and generalization. By contextualizing learning within real-world applications and industry best practices, the course empowers students to make informed decisions in model selection, deployment, and optimization, thereby enhancing their proficiency in the dynamic field of machine learning.



Objetivo general



UNIDAD 3

- Equip learners with the knowledge, skills, and tools necessary to critically evaluate and validate machine learning models effectively.
- Develop a deep understanding of how to assess model performance, identify biases and errors, and optimize predictive capabilities.

Competencias a desarrollar

- Linguistic competence.
- Pragmatic competence.
- Sociolinguistic competence.

Linguistic Competence: In the context of machine learning, learners may encounter technical terminology, domain-specific jargon, and academic writing conventions prevalent in research papers and documentation. By engaging with course materials, reading technical literature, and communicating their ideas effectively, learners will reinforce their linguistic competence, acquiring the language skills necessary to articulate complex concepts, discuss machine learning principles fluently, and communicate their findings accurately within the field.

Competencias a desarrollar

Pragmatic Competence: Throughout the course, learners will engage with various machine learning models and evaluation techniques, honing their ability to analyze model performance metrics and make informed decisions about model selection, optimization, and deployment. By applying theoretical concepts to practical problems and datasets, learners will enhance their ability to navigate complex machine learning workflows and address real-world challenges effectively. Through hands-on exercises, projects, and case studies, learners will develop the pragmatic competence necessary to evaluate machine learning models critically and deploy them in diverse applications across industries.

Competencias a desarrollar

Sociolinguistic Competence: In the context of machine learning, learners will engage in collaborative activities, discussions, and knowledge-sharing platforms with peers and experts in the field. These interactions will expose learners to the diverse perspectives, practices, and conventions prevalent in the machine learning community, fostering an appreciation for the social and cultural dimensions of language within the domain. By participating in professional discourse, presenting findings, and engaging in collaborative projects, learners will develop the sociolinguistic competence necessary to navigate and contribute to the broader machine learning ecosystem effectively.

Activación de saberes previos

PLANTEAMIENTO DE LA SESIÓN

- 1) Socialize the technology idiom of the day.
- 2) Key vocabulary reading activity.
- 3) Reading comprehension activity: "Machine Learning Model Evaluation"
- 4) Antonym activity.
- 5) Multiple choice activity.
- 6) Pre-reading 2: Socialize keywords
- 7) Reading: "Model Evaluation Techniques in Machine Learning"
- 8) Gap fill activity about the previous reading.
- 9) Socialize key words: Reading: "Train vs. Validation vs. Test set"
- 10) Reading comprehension activity: "Train vs. Validation vs. Test set"
- 11) Kahoot activity.

MATERIALES

- Reading: "Machine Learning Model Evaluation"
- Reading: "Model Evaluation Techniques in Machine Learning".
- Reading: "Train vs. Validation vs. Test set"