

Contenido del curso

Data Science for All - Cohorte 3

(DS4A-3)

Ofrecido por MinTIC

28 Agosto a 20 Noviembre de 2020

Semana 1

- ❖ Identifying Expansion Opportunities for Luxury Commercial Airline Flights
- ❖ Data Science, Machine Learning, and Artificial Intelligence at a Glance
- ❖ How are trading volume and volatility related for energy stocks?
- ❖ Should we develop a commercial SNAP test for predicting recovery from spinal cord injuries?
- ❖ How have global energy production trends changed over time?
- ❖ **Bootcamp:** Python Fundamentals
- ❖ **Bootcamp:** Pandas
- ❖ **Bootcamp:** Statistics Fundamentals

- ❖ Lectura
- ❖ Transformación
- ❖ Análisis descriptivo
- ❖ Visualización
- ❖ Creación de App (Back-End y Front-End)

Semana 2

- ❖ What patterns exist between energy consumption and generation?
- ❖ Spatial and Temporal Trends in Crop Production
- ❖ What features determine the price of an Airbnb rental?
- ❖ How do users engage with a mobile app for automobiles?
- ❖ Bootcamp: AWS
- ❖ Bootcamp: RDS

Semana 3

- ❖ How do we deploy the Chicago police force to efficiently fight crime?
- ❖ Automating the extraction of Financial Data for Stocks
- ❖ How do we prepare data for use with an analytics platform?
- ❖ How do we prepare Yelp data to answer business questions?
- ❖ **Bootcamp:** Data Transformation
- ❖ **Bootcamp:** SQL Basics - Part 1
SQL Basics - Part 2

Semana 4

- ❖ How can we optimize our sales of financial products?
- ❖ Analyzing Net Promoter Score (NPS) data with SQL: Part 1 -- Part 2
- ❖ How can we build a company database to handle product sales end-to-end?
- ❖ How does my company's sales data compare across different states over time?
- ❖ **Bootcamp:** Dash
- ❖ **Bootcamp:** Text Processing
- ❖ DS4A Colombia Speaker Series: Cristina Pombo

Semana 5

- ❖ How do I pre-process text data from Yelp reviews so I can analyze it?
- ❖ Do there exist significant differences between the balances of my various customers' cohorts?
- ❖ Do the types of crimes committed in Chicago depend on location and time?
- ❖ How can I experiment with online travel deals to attract more customers?
- ❖ Do prison reform programs reduce recidivism?
- ❖ **Bootcamp:** Building your application
- ❖ **Bootcamp:** A/B Testing

Semana 6

- ❖ Is there a pay discrimination between men and women in your organization?
- ❖ How should we price homes in Seattle?
- ❖ DS4A Speaker Series: Alejandro Correa
- ❖ How much should properties be worth in Milwaukee, Wisconsin? Part 1 -- Part 2
- ❖ **Bootcamp:** Natural Language Processing
- ❖ **Bootcamp:** Image Processing Neural Networks

Semana 7

- ❖ How important is the income source of an online loan applicant?
- ❖ How can I compare different models that predict the probability of defaulting on a loan?
- ❖ DS4A Speaker Series: Uptime Analytics
- ❖ How do I build a prediction model for Lending Club loan defaults?
- ❖ Can we detect patterns among specific consumers to identify potential fraud?
- ❖ **Bootcamp:** Convolutional Neural Networks
- ❖ **Bootcamp:** Deep Learning Fundamentals

Semana 8

- ❖ Which salient variables influence the price of homes?
- ❖ Predicting future airline revenue from alternative data sources
- ❖ Guest Speaker - Tomas Moreyra, Technical Leader for Machine Learning projects at Mercado Libre
- ❖ How can we predict the sentiment associated with a customer interaction?
- ❖ How do I predict the fair market prices of used cars?
- ❖ **Bootcamp:** Reinforcement Learning
- ❖ **Bootcamp:** Data Storytelling

Semana 9

- ❖ How do I select survey participants to plan my new sandwich shop's menu?
- ❖ How can we predict cancerous mutations from images of human cells?
- ❖ How do I optimize promotions placement on an e-commerce website?
- ❖ Recommendation system for movies

Proyectos Finales

- ❖ Equipo 65
- ❖ Equipo 66
- ❖ Equipo 67
- ❖ Equipo 68
- ❖ Equipo 69
- ❖ Equipo 70
- ❖ Equipo 71
- ❖ Equipo 72
- ❖ Equipo 73

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EL MINISTERIO DE TECNOLOGÍAS DE LA INFORMACIÓN Y LAS COMUNICACIONES DE COLOMBIA
Y CORRELATION ONE CERTIFICAN QUE

Luis Hernando
Vanegas Penagos

Forma parte de los colombianos que han culminado con éxito el programa de Ciencia de Datos
Fall 2020 Data Science for All (DS4A) en Colombia, con una duración de 375 horas.

Dado virtualmente a los 20 días del mes de noviembre de 2020.



Karen A

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Rasheed Sabar

RASHEED SABAR
CO-FOUNDER AND CO-CEO
CORRELATION ONE



El futuro digital
es de todos

MinTIC