Big Data 2 (Predictive analytics)

Duration: 8 hours (2 X 4 hours)

Description:

This workshop addresses the basics of predictive analytics using structured data to mine survey data. In includes reading and managing different data formats, data wrangling and exploratory data analysis in Python. It includes the application of machine learning algorithms over survey data.

Day 1 (4 hours)
-Introduction to predictive analytics
-Data formats and ingestion of data

Day 2 (4 hours)
-Exploratory data analysis
-Machine learning to survey data

Course prerequisites: Some bases in statistics desirable.

Software used: We will introduce the language Python

Instructor:

Dr Carlos Arcila Calderón, Assistant Professor at the Department of Sociology and Communication at the University of Salamanca, Spain. PhD in Communications and Master in Data Science. Specialist in computational methods in social sciences. (http://diarium.usal.es/carcila/english/)

References

Kelleher, J. D., Mac Namee, B., & D'Arcy, A. (2015). Fundamentals of machine learning for predictive data analytics: algorithms, worked examples, and case studies. MIT Press.