



▶ SUMMER SCHOOL ON DATA SCIENCE 2019

MAY 14-18, 2019

DE LA SALLE UNIVERSITY LAGUNA CAMPUS

DESCRIPTION

The proliferation of data in society today has allowed various organizations to collect volumes of unstructured information, from bank transactions, online purchases, traffic and vehicular registration, geo tags, video recordings of people traffic in malls, among others. The area of Data Science is motivated by the need to collect, clean, and make sense of information that are collected, and share these insights for the benefit of institutions and society in general.

DataSci2019 is a 5-day introductory training program that offers engaging hands-on experience on data collection, data cleaning, data exploration, data visualization, hypothesis testing and real-world applications. A series of lectures will be delivered by invited local and international professors and domain experts. Participants will be exposed to basic AI and statistical techniques to gain insights. At the end of the summer school, the participants would have gone through the complete data science process.

The school is open to undergraduate and graduate students, teachers and IT professionals.

TOPICS

DATA COLLECTION

- Scraping data from web (*real estate data*) using libraries `url` and `beautifulsoup4`

DATA CLEANING

- Removing label encodings
- Fixing misspellings
- Removing duplicates
- Standardizing measurement units
- Removing outliers

DATA EXPLORATION AND VISUALIZATION

- Finding patterns in the data
- Seeing (*more*) outliers
- Creating graphs for data (*single and multi variable, quanti and quali*)

HYPOTHESIS TESTING

- Statistical testing

DATA SCIENCE REAL-WORLD APPLICATIONS

- Lecture by a visiting professor from New York University

PROJECT PRESENTATION

ACTIVITIES

Participants will learn the basic concepts in Data Science by working in teams. Each team will work on a specific project, and will be presented at the end of DataSci2019.

PARTICIPANTS

The course is open to undergraduate and graduate students, teachers and IT professionals who are familiar with basic programming using Python 3.6 and data manipulation tools like Excel. Applicants will be screened and only 24 will be selected.

This is designed to be a live-in summer school program. Accommodations will be provided at the Courtyard by Arthaland located inside the Laguna campus (<https://www.dlsu.edu.ph/laguna-campus/facilities/>).

REGISTRATION FEE

Registration fee is PHP 13,000. This will cover the expenses for the following:

- Accommodation for 4 nights
- Meals for 5 days
- Transportation to and from the Manila Campus (if coming from Metro Manila)

Interested participants should register at this link: <http://bit.ly/DataSci2019>