Introduction to Machine Learning and Deep Learning

by Ecole Polytechnique / Kyoto University

August 21~August 25, full day (9:00~17:00)

The workshop is consisted in a short one week introduction to machine learning and deep learning. it is structured as a series of short theoretical lectures, and on-going project where participants apply step-by step the various tools and methods.

At the end of the workshop, participants will have gained an understanding of the state-of-the-art algorithms and tools to be used in machine learning, along with the ability to apply them and to interact with experts in the field. The main lecturer will be Jeremie Jakubowicz, a visiting professor at Ecole Polytechnique.

Tuition: Free
Location : Kyoto University

Eligible Applicants :
-Undergraduate and graduate students in all majors
-Researchers and business people
-Foreign nationals studying or working in Japan

Maximum number of participants: 15

Application deadline : July 24
Acceptance announcement : July 26

（Please note that the above underlined shcedule have been shortened from the original schedule due to a large numbe of applications.)

(participation to the workshop is subject to selection by Kyoto University and Ecole Polytechnique)

Application Form :
https://goo.gl/forms/xfOSDH0pXFxdHyPQ2

Lecture1 ✔**Day1** **Mon., Aug. 21**

Presentation of the Challenge Credit Default Prediction
Presentation of Python and Jupyter
Manipulating Data with Pandas Handling Missing Data

Lecture2 ✔**Day2** **Tue., Aug. 22**

ML Introduction:
Tree/Forest, Boosting

Using Python Scikit Learn Library
Blending and Stacking

Lecture3 ✔**Day3** **Wed., Aug. 23**

Deep Learning for Image Processing

Lecture4 ✔**Day4** **Thu., Aug. 24**

Deep Learning for Text Processing

Lecture5 ✔**Day5** **Fri., Aug. 25**

Machine Learning at Scale
Map Reduce
Distributed Gradient Descent

Final Project Due ✔**Day5** **Fri., Aug. 25**

Final course project due date

Machine Learning

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