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ACADEMY



PILAT EUROPE
Leading a new era of human resources

Boost Program

SUMMER EDITION 2020

Artificial Intelligence Package: **ML**

- ✔ Introduction to Machine Learning

KAÏNA-COM TRAINING CATALOGUE

Introduction to Machine Learning

Introduce the concepts of machine learning, the problem sets it can solve, basic algorithms and tools as well as hands-on experience with working with those algorithms



KDS005 – Introduction to Machine Learning

Reference KDS005

Experience

- Beginner
- Intermediate
- Advanced

Duration Training Program:

- 1 day

Training Method

- I: i-learning, individual training (web-based training)
- V: v-learning, virtual class
- C: c-learning, classroom training

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77127 Lieusaint - France

Prerequisite Basic programming skills in Python, C, Java or other languages

Audience Data Scientist, High level Managers, Presale Managers, IT Managers, QA and Technical Support or those who wants to Understand more about the problem set solved by machine learning as well as the algorithms and methods used by machine learning.

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KDS005 – Introduction to Machine Learning, Continued

Objective Understand the problem set solved by machine learning as well as the algorithms and methods used by machine learning.
Hands-on experience in using ML tools.

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KDS005 – Introduction to Machine Learning, Continued

Course Contents

Course Contents :

Table 1: KDS005 - Course Contents

Chapter	Description
Introduction to machine learning	<ul style="list-style-type: none"> • Why we need it • What it can and can't do • Limitations <ul style="list-style-type: none"> – Heuristics – not really smart • Supervised and unsupervised methods
Python with numpy & scipy	<ul style="list-style-type: none"> • Intro to working environment: Python with numpy & scipy
Machine learning algorithms	<ul style="list-style-type: none"> • Machine learning algorithms
Short review and hands-on programming exercise for each	<ul style="list-style-type: none"> • Naïve base • SVM • Decision trees • Regression (linear prediction) • Outliers extractions • Feature scaling • PCA
Whats next?	<ul style="list-style-type: none"> • Machine learning platforms by Apache, Matlab, Amazon
Examples	<ul style="list-style-type: none"> • Well select one example according to student preferences <ul style="list-style-type: none"> – Machine learning and classification in communication and DPI – Machine learning in advertisement optimization – Machine learning in Image processing

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KDS005 – Introduction to Machine Learning, Continued

Course Contents, continued

Table 2: KDS005 - Course Contents

Chapter	Description
Summary including Q&A	<ul style="list-style-type: none">• Summary Exercise → Processing path:<ul style="list-style-type: none">– Image processing & scaling ->Computer vision feature extraction ->Machine Learning classifier• Q&A

