



ENIGMA CG
CONSULTING GROUP

ANALYTICS

TRAINING - NOV 2018

THAILAND
Bangkok

INTRODUCTION TO “*R*”
WORKSHOP - (19th - 20th November 2018)

MACHINE LEARNING USING “*R*”
WORKSHOP - (21st - 22nd November 2018)

ADVANCE MACHINE LEARNING USING “*R*”
WORKSHOP - (23rd - 26th - 27th November 2018)

INTRODUCTION TO “*PYTHON*”
WORKSHOP - (15th -16th November 2018)

MACHINE LEARNING USING “*PYTHON*”
WORKSHOP - (28th - 29th - 30th November 2018)

“*CLOUDERA*” DATA ANALYST TRAINING
(12th - 13th - 14th December 2018)

WHAT IS THIS COURSE ABOUT?

This course focuses on python for data science. You will learn about Python programming interfaces, how data stored and referred how to import various data formats in Python. You will learn various data preparation and explorations tasks through pandas and numpy libraries. Finally, you will learn to visualize data using matplotlib library.

WHO SHOULD ATTEND?

This is a level one program. Anyone who wants to enter into analytics/ data science or R/SAS data science programmer who want to enrich with one more programming language.

PREPARATION

You must bring your own laptop, 64 bit, at least i3 core processor (i5 preferred). Instructions on installation of anaconda for Python would be sent you before the workshop. You need to follow those instructions to make your laptop ready before the class.

COURSE OUTLINE:

Getting started with Python

- Introduction to Python Programming Interfaces
- Understanding data types
- Understanding data structures

Importing data in Python

- Flat files
- Other files
- Relational databases
- Web

Data Preparation

- Foundation of pandas
- Reshape, rearrange, transform
- Cleaning
- Combining
- Data pre-processing

Data Exploration

- Numeric statistics with panda and numpy

Visualization in Python using Matplotlib

- Customizing plots
- Statistical plots

WHAT IS THIS COURSE ABOUT?

Machine learning is the science of making computer machine self learn from the past experiences to improve on the task's outcome. There are many exciting real life examples of application of machine learning such as robotic vacuum cleaner, self-driving cars, face or speech recognition, effective web search and many more. In this course you will learn important machine learning concepts, types of machine learning algorithms, steps in the model building, testing and scoring and learn various packages and functionalities in Python .You will get introduced to various supervised and unsupervised learning algorithms, you learn more complex linear, nonlinear as well as ensemble machine learning techniques.

Enough time is spent on understanding the concept behind each algorithm within case studies . What's more? This course will also introduce with deep learning .

WHO SHOULD ATTEND?

This is level two program. If you already familiar with basic maths concepts like linear algebra, matrices and stats concepts like probability, estimation, this course would be easier for you to grasp. If you are interested to know more on what machine is learning, how to use machine learning, types of machine learning, and implementation of various algorithms to solve some of the business problems then , you should attend this two days course. This course expects some Python knowledge.

PREPARATION

You must bring your own laptop, 64 bit, at least i3 core processor (i5 preferred) with NVIDIA GPU. Instructions on installation of anaconda for Python would be sent you before the workshop. You need to follow those instructions to make your laptop ready before the class.

COURSE OUTLINE:

Introduction to Machine Learning

- Intro to machine learning
- Types of machine learning algorithms
- Understanding basics
- Steps in the model building, testing and scoring
- Model Evaluation Metrics

Supervised learning algorithms

- Understanding Linear and non-linear algorithms
- Understanding Regression and Classification

Linear Algorithms

- Simple linear regression
- Multiple linear regression
- Logistic regression

Non-linear Algorithms

- k nearest neighbors
- Classification and regression trees
- Naïve byes
- Neural networks

Ensemble Algorithms

- Random forest
- Gradient boosting

Unsupervised learning algorithms

- Understanding Clustering and Association
- *k-means Clustering
- *MBA using Word2Vec

Introduction to Deep Learning

- Introduction to Deep Learning

TESTIMONIALS

Testimonials:

The reason why I came to this program is to get to know about the new trend of people in the same field. And what I can see until now is my expectation were met. The program is very informative. I met a lot of people that inspired me today and I would recommend this program to anyone who is interested in analytics. Thank you very much for inviting me.

Etelka Dallon
Team Head of
Modelling and Measurement



It's not often that I attend data analytics conferences but I have to say it has been very eye-opening hearing a lot from across many different industries. I have to say that it's a wonderful chance to see whether we are doing is in the right direction. Also, at the same time, it's been an absolutely a refreshing to see other data specialists and scientists, gurus geeks make a difference in how they are transforming their businesses.

Amy Cheung – Aegon Insights



There are so many materials with very good speakers. When I joined this program, it feels like a very good opportunity for people who wants to practice analytics not only concept but also about application and practice. Thank you very much EnigmaCG for organizing this event.

Agus Laksono
Head of Data Scientist



It's a wonderful event, magnificent program with a lot of people attending from diverse background. Highly recommend for people from marketing and analytics.

Tamkeen Qureshi
VP Digital Analytics DTAC



This is the first time we have done a public event in Thailand. I have to say, it has been an excellent choice of event. The audiences consisted of not only from fantastic companies but also people within those companies that is real decision makers, real innovators. I am very happy with this event and will be back next year for sure.

Tim Young
VP Marketing



Previous Workshop Attendees

