

Bio
Pharma
Chem

Skillnet,

Introduction to Data Science



Delivered by:

Professional TRAINING

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Course Description

This course provides an introduction to data science techniques and provides attendees with a working knowledge of some popular data science tools. The techniques learned can be applied to both small and Big Data sets, and on many types of data. Theoretical concepts are combined with hands-on exercises to give attendees the skills to derive valuable insights from real data.

Duration: 2 Days

Who should attend?

This course is for anybody using data as part of their job and who need to gain insights from that data. Participants should have basic Excel skills.

How will you learn?

At the end of this course, attendees will be able to:

- Understand the stages in a data analysis project
- Select the appropriate analysis tool to suit the data and project requirements
- Use Excel to investigate a data problem
- Visualise data relationships with Excel
- Use advanced features of Excel such as What-If and Goal-seeking
- Use R, R Studio and many of the R packages to carry out data exploration.
- Investigate relationships in data with R
- Visualise data relationships using R
- Techniques for classification with R
- Bayesian methods
- Regression with R
- Developing models and evaluating models
- Streamline and organise their data analysis work

The Programme

Day One Content

- Introduction to Data Science
- Sample Data science problem
- Types of data
- Exploring Titanic data with excel
- Graphing excel data
- Advanced Excel techniques
- Basic Data exploration with R
- Visualising data with R

Day Two Content

- Nearest Neighbour classification
- Bayes classification
- Decision trees and decision rules
- Regression techniques
- Data visualisation
- The Tidyverse packages
- Data Analytical Pipeline

**This training is delivered on behalf of BioPharmaChem Skillnet by Professional Training.
For further information please contact training@bpcskillnet.ie or phone 087 997 0848**

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