
Intermediate R Programming – One Day Course Agenda

Overview

The Intermediate R Course builds on the introductory course & includes the latest developments in R, including functions/packages for analysing big data & producing advanced visualisations.

Target Audience

This course is aimed at participants who have a foundational knowledge of R, further building on the basics of R and providing more advanced capability training.

Learning Outcomes

At the end of this course delegates will have gained the following knowledge and capabilities:

- Optimise R Scripts to handle large data volumes and complex calculations.
 - Create predictive models in R using Regression techniques.
 - Use advanced visualisation techniques in R.
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#	Topic
1.	Introduction and Recap <ul style="list-style-type: none">Recap on R, RStudioA quick warm-up exercise
2.	Being Efficient with R <ul style="list-style-type: none">R object efficiencyR function efficiency, debugging and testing
3.	Introduction to Regression <ul style="list-style-type: none">Linear and non-linear regressionEnhancing your data with a predictive regression model
4.	Advanced Visualisation in R
5.	Advanced Regression Techniques <ul style="list-style-type: none">Multiple regressionStepwise regressionRegression trees
6.	Validation and Accuracy <ul style="list-style-type: none">Checking your models effectivelyBest practices for conveying model reliability (Adjusted R Square, Confidence Intervals)
7.	Interacting with R <ul style="list-style-type: none">Shiny App
8.	Summary and Close