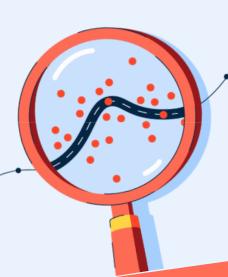




# Forecasting with Generalised Additive Models (GAMs) in R



#### Instructor



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## Register for free...

FEBRUARY 2024

14.00-16.00 GMT Time







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### Who is the training for?

- Anyone who is interested in extending their knowledge beyond simple regression models and learning more about generalised additive models.
- Newcomers to the field of generalised additive models who want to understand their importance and relevance in forecasting.
- Academics, students, data scientists, researchers, and practitioners in the field who are working with data containing complex nonlinear relationships.
- 4 People who want to learn how to implement generalised additive models using R.

### **Learning objectives**

By the end of the workshop, participants will:

- 1 know what generalised additive models are;
- 2 understand why and when they might be appropriate for certain types of data;
- 3 be able to fit and evaluate GAMs using the {mgcv} package in R;
- 4 understand how to interpret the output from fitted models.

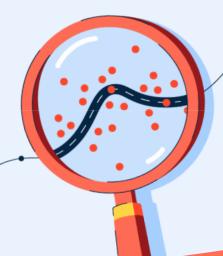
#### **Prerequisites**

- 1 Basic knowledge of R.
- 2 Basic knowledge of statistics and linear modelling.





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#### **Outline of the session**

- This session will provide an overview of generalised additive models (GAMs), demonstrate the practical aspects of fitting such models, and describe how to evaluate and interpret different them
- Live demonstrations and hands-on coding exercises will give participants the opportunity to practice implementing models using R.

#### Outline of the lab sessions

- 1 Introduction to the data and the {mgcv} package (15 minutes)
- 2 Fitting and evaluate GAMs using the {mgcv} package (15 minutes)
- 3 Forecasting using GAMs (15 minutes)

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