

## AI WORKSHOP SUMMARY

In this day-long instructor-led workshop, participants will be introduced to the fundamentals of data science theory, tools, and practice. This course is suitable for anyone with basic computer skills; some knowledge of code and statistics is a bonus, and this will only enhance your experience of the course.

In this Workshop participants will learn:

- The data science project workflow
- How to source and prepare data
- How to select a suitable model for the task
- How to configure and tune a machine learning model
- Other exciting applications of AI in interactive demos

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## AGENDA:

### **Module 1: Data collection and preparation**

- What good data looks like
- How to find good data
- Preparing data for your model
- Cleaning data
- Training, Validation, and Testing

### **Module 2: Selecting a model**

- What are models and how to find them
- Working back from the goal
- Picking our architecture

### **Module 3: Fitting the model**

- Passing the data in
- Testing the model

### **Module 4: Tuning the model**

- Improving performance
- Hyper parameters and how to tune them
- Validation and the importance of a test set
- Other methods of improving performance

### **Module 5: More use cases**

- Other uses of our model
- Other interesting models
- What is possible (and what isn't)