

EMPLOYEE DATA SCIENCE TRAINING

ONLY
£300
per
person

Available To:

UK manufacturing businesses with fewer than 215 employees. Looking to add data science into their business.

Suited to your employees with:

- Maths A-level
- Interest in (or knowledge of) Python

We're offering:

- Part-Time Bootcamps (20 hrs per week)
- 90% funded by DfE (you only pay 10%*)
- Choose either (or both) Bootcamp courses
- 14-Weeks duration per Bootcamp
- Up to 4 staff members per Bootcamp

**Equivalent to £300 per person
(or £11 per training day, per person)*

About the training:

BOOTCAMP 1:

Robotic Process Automation (RPA)

Starting with an overview of RPA concepts, this course then build learning into Desktop, Web, and Unattended Automation processes.

Rounding off with AI Integration training. And a final project to assess the skills knowledge & behaviour learnt in the bootcamp.

BOOTCAMP 2:

Deep Learning and Foundation Models (DLFM)

This training covers introduction to, understanding of, and fundamentals of DLFM.

Leveraging pre-trained language, vision and multi-modal models. We also cover responsible AI and Ethics as well as fine-tuning foundational models and hands-on experience with prompt programming.

Each module of these two Bootcamps offers 'hands-on' experience to ensure training is embedded and easily applicable to your business.

Provided by:

**the
DEVELOPER
Academy**

&



Department
for Education

Let's talk!

For more details about the training, the funding, and the pre-course tasks for any employees, please contact:

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BOOTCAMP 1: Robotic Process Automation (RPA)

Starting with an overview of RPA concepts, this course then build learning into Desktop, Web, and Unattended Automation processes.

Rounding off with AI Integration training. And a final project to assess the skills knowledge & behaviour learnt in the bootcamp.

Module 1 - Overview of RPA concepts

- RPA architecture & components
- Automation lifecycle - assess, build, test, deploy, manage
- Hands-on Lab - Intro to RPA tool

Module 2 - Desktop Automation

- Recording robots
- Configuring & enhancing desktop flows
- Exception handling & error management
- Hands-on Lab - Build first desktop automation

Module 3 - Web Automation

- Identifying elements, sequences, data scraping
- Dealing with dynamic web pages
- Hands-on Lab - Browser-based automation

Module 4 - Unattended Automation

- Attended vs. unattended automations
- Scheduling and triggers
- Integrating bots with systems & data
- RPA administration & governance
- Hands-on Lab - Attended automation
- Hands-on Lab - Unattended automation

Module 5 - AI integration

- Analytics and monitoring
- Roadmap & strategy
- Hands-on Lab - Automation challenge

Final project

- Summative assessment, experiment & apply skills knowledge & behaviour learnt in the bootcamp

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BOOTCAMP 2: Deep Learning and Foundation Models (DLFM)

This training covers introduction to, understanding of, and fundamentals of DLFM. Leveraging pre-trained language, vision and multi-modal models.

Module 1: Introduction to Foundation Models

- Understand foundation models & their applications

Module 2: Deep Learning Fundamentals

- Learn about neural networks, activation functions, backpropagation

Module 3: Neural Networks for NLP

- Understand the usage of word embeddings, RNNs, LSTMs for NLP

Module 4: CNNs and Computer Vision

- Learn how to use CNNs for image classification & segmentation

Module 5: Transforms & Self-Attention

- Understand transformer architectures & multi-headed self-attention

Module 6: Transfer Learning

- Gain knowledge on leveraging pretrained models & learning across tasks

Module 7: Pretrained Language Models

- Understand models like BERT, GPT-3, their benefits, & limitations

Module 8: Pretrained Vision & Multi-Modal Models

- Learn about DALL-E, CLIP, & combining modalities

Module 9: Accessing & Using Foundation Models

- Get hands-on experience with APIs, model catalogues, platforms

Module 10: Responsible AI & Ethics

- Mitigating biases, ensuring fairness

Module 11: Fine-tuning Foundation Models

- Strategies for adapting models to new tasks

Module 12: Future Programming Using Large Language Models

- Hands-on experience with prompt programming, chain-of-thought

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