

Total number of videos

55

Total length

11:21:18



| | | Videos | Length |
|------------------|---|-----------|----------------|
| Module 1 | The 'AI revolution': it's too important to be left to data scientists alone | 1 | 42:05 |
| Part 1 | How and why AI will transform the future of work | 13 | 2:08:26 |
| Module 2 | AI's workplace applications: an intuitive introduction | 6 | 1:04:49 |
| Module 3 | Beyond the hype: opportunities, risks, and the future of work | 3 | 31:18 |
| Module 4 | Bridging the skills gap: why your domain knowledge matters | 4 | 32:19 |
| Part 2 | Artificial intelligence and machine learning: what do you need to know? | 10 | 2:43:20 |
| Module 5 | The big picture: thinking clearly about AI, machine learning, and data science | 5 | 1:07:15 |
| Module 6 | Demystifying machine learning: a code-free introduction to the technical principles | 5 | 1:36:05 |
| Part 3 | The anatomy of an AI project | 8 | 1:32:53 |
| Module 7 | Inside data science teams: who develops AI applications? | 4 | 32:46 |
| Module 8 | How it's built: machine learning project workflows | 4 | 1:00:07 |
| Part 4 | How to help shape your organization's AI strategy | 20 | 3:52:32 |
| Module 9a | Partnering with data science teams: why they need you - and how you can help | 6 | 1:08:52 |
| Module 9b | Error metrics and evaluation criteria: getting it wrong in the right way | 4 | 45:02 |
| Module 10 | AI ethics and risks: rogue machines or bad design? | 5 | 1:04:42 |
| Module 11 | Interpreting AI outputs: When can you trust a machine? | 5 | 53:56 |
| Module 12 | Next steps | 3 | 22:02 |

Part 1 | How and why AI will transform the future of work

Number of videos: 13 Total length: 2:08:26

Module 2 | AI's workplace applications: an intuitive introduction

Number of videos: 6 Total length: 1:04:49

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|--|-------|
| 1 Start here: how to use this course | 3:58 |
| 2 30 Workplace applications of AI | 3:51 |
| 3 But really - what is 'AI'? | 10:05 |
| 4 From data to 'intelligence' | 17:30 |
| 5 Three kinds of new capabilities | 20:35 |
| 6 AI - not a silver bullet | 8:50 |

Module 3 | Beyond the hype: opportunities, risks, and the future of work

Number of videos: 3 Total length: 31:18

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|--|-------|
| 1 The fourth industrial revolution | 5:10 |
| 2 Opportunities: Why are organizations investing so heavily in AI? | 11:22 |
| 3 The future of work (beyond the hype) | 14:46 |

Module 4 | Bridging the skills gap: why your domain knowledge matters

Number of videos: 4 Total length: 32:19

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|---|-------|
| 1 Introducing the skill gap | 5:40 |
| 2 The implementation equation | 7:05 |
| 3 Domain expertise: why it's essential | 7:24 |
| 4 AI in the workplace: Where do YOU fit in? | 12:10 |

Part 2 | Artificial intelligence and machine learning: what do you need to know?

Number of videos: 10 Total length: 2:43:20

Module 5 | The big picture: thinking clearly about AI, machine learning, and data science

Number of videos: 5 Total length: 1:07:15

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| 1 AI' - Does it really exist? | 4:19 |
| 2 Thinking clearly about AI - a gentle introduction | 23:04 |
| 3 From machine learning to artificial intelligence | 17:26 |
| 4 What is data? The fuel for AI | 13:15 |
| 5 Putting the 'science' in data science | 9:11 |

Module 6 | Demystifying machine learning: a code-free introduction to the technical principles

Number of videos: 5 Total length: 1:36:05

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|--|-------|
| 1 Machine learning: focus on the 'why' | 1:14 |
| 2 How do machines 'learn'? | 24:55 |
| 3 Key types of machine learning | 22:51 |
| 4 Deep learning: why all the fuss? | 21:51 |
| 5 The cost function and machine 'motivation' | 25:14 |

Part 3 | The anatomy of an AI project

Number of videos: 8 Total length: 1:32:53

Module 7 | Inside data science teams: who develops AI applications?

Number of videos: 4 Total length: 32:46

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| 1 Who are the 'data scientists'? | 7:50 |
| 2 The data scientist's mission | 11:37 |
| 3 Data professionals: key roles and responsibilities | 6:30 |
| 4 The data science tool belt | 6:49 |

Module 8 | How it's built: machine learning project workflows

Number of videos: 4 Total length: 1:00:07

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| 1 Five reasons decision makers pull the AI trigger | 6:10 |
| 2 Data and oil: a tale of two transformations | 16:00 |
| 3 The machine learning project lifecycle: part 1 | 15:23 |
| 4 The machine learning project lifecycle: part 2 | 22:34 |

Part 4 | How to help shape your organization's AI strategy

Number of videos: 20 Total length: 3:52:32

Module 9a | Partnering with data science teams: why they need you - and how you can help

Number of videos: 6 Total length: 1:08:52

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|---|-------|
| 1 A solution looking for a problem? (context setting) | 6:48 |
| 2 Problem definition | 11:46 |
| 3 Preparing for development | 15:38 |
| 4 Development and testing | 11:18 |
| 5 Project application | 17:35 |
| 6 Interlock | 5:47 |

Module 9b | Error metrics and evaluation criteria: getting it wrong in the right way

Number of videos: 4 Total length: 45:02

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|---|-------|
| 1 Error metrics and math: why they shouldn't scare you | 2:44 |
| 2 Error metrics: classification | 15:48 |
| 3 Error metrics: regression | 15:10 |
| 4 Bringing it together: evaluation criteria, lift, and gain | 11:20 |

Module 10 | AI ethics and risks: rogue machines or bad design?

Number of videos: 5 Total length: 1:04:42

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|---|-------|
| 1 Beware the unintended consequences | 4:16 |
| 2 What could go wrong? | 11:21 |
| 3 Risks arising from new ethical considerations | 25:20 |
| 4 Risks arising from implementation | 11:25 |
| 5 Assessing risks: a practical approach to mitigation | 12:20 |

Module 11 | Interpreting AI outputs: When can you trust a machine?

Number of videos: 5 Total length: 53:56

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| 1 Working with AI (framing the scenarios) | 3:28 |
| 2 Scenario 1: Something's gone wrong... but you don't know why | 16:10 |
| 3 Confirmation bias vs blind faith | 6:28 |
| 4 Scenario 2: Deciding whether to rely upon machine outputs | 19:08 |
| 5 How to call bullshit | 8:42 |

Conclusion

Module 12 | Next steps

Number of videos: 3 Total length: 53:56

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|---|-------|
| 1 Taking stock | 2:49 |
| 2 How to apply your skills - getting plugged in | 11:41 |
| 3 From 'AI literate' to 'AI influencer' | 7:32 |