# Developing Your Data Skills Programme

## Level 1

### Section 1: Introduction to Data Skills and Programming (months 1 and 2)

- **Pre-Recorded Workshop (1h)**
  - Introduction to Data Skills and Programming:

### Online learning (6h)

1. **Introduction**
   - a) Learning Data Science – Understanding the Basics by Doug Rose
     
     linkedin.com/learning (1 hour 16 mins)
     
     https://bit.ly/2ZyKYrY

2. **Programming and Excel**
   - a) Learning Excel Desktop (Office 365) by David Rivers
     
     linkedin.com/learning (1 hour 16 mins)
     

   - b) What's an algorithm? by David J. Malan
     
     YouTube (5 mins)
     
     https://bit.ly/PhXELd

   - c) Learning to Code  Choose ONE:

     1) Introduction to R
     
     DataCamp (1 hour)
     
     https://bit.ly/1FORUxq
     
     And:
     
     Learning R by Barton Poulson
     
     linkedin.com/learning (2 hours 51 mins)
     
     https://bit.ly/3cT2agV
     
     OR:
     
     2) Intro to SQL for Data Science
     
     DataCamp (1 hour)
     
     
     And:
     
     Learning SQL Programming by Scott Simpson
     
     linkedin.com/learning (1 hours 27 mins)
     
     
     OR:
     
     3) Intro to Python for Data Science
     
     DataCamp (1 hour)
     
     https://bit.ly/1OHx2uV
     
     And:
     
     Python Basics for Data Science
     
     EdX (2-5 hours)
     
     https://bit.ly/2Zc0oPi

## Level 2

### Section 1: Introduction to Data Skills and Programming (months 1-3)

- **Pre-Recorded Workshop (1h)**
  - Introduction to Data Skills and Programming:

### Online learning (22h)

1. **Introduction**
   - a) Learning Data Science – Understanding the Basics by Doug Rose
     
     linkedin.com/learning (1 hour 16 mins)
     
     https://bit.ly/2ZyKYrY

2. **Programming and Excel**
   - a) Excel 2016: Introduction to Formulas and Functions by Curt Frye
     
     linkedin.com/learning (2 hours 58 mins)
     

   - b) What's an algorithm? by David J. Malan
     
     YouTube (5 mins)
     
     https://bit.ly/PhXELd

   - c) Master Excel for Data Science
     
     linkedin.com/learning (17 hours 14 mins)
     
     https://bit.ly/3f8wCmg

     OR SUBSTITUTE TWO EXCEL VIDEOS FOR:

     Programming Foundations: Real World Examples by Barron Stone
     
     linkedin.com/learning (3 hours 8 mins)
     

     • Excel Statistics Essential Training 1 (2016)
     • Excel Statistics Essential Training 2 (2016)
     • Excel 2016: Managing and Analysing Data
     • Learning Excel Data Analysis (2015)
     • Excel 2016: Data and Validation in Depth
     • R for Excel Users
     • Excel VBA: Managing Files and Data
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<tr>
<td><strong>Section 2: Statistics and Data Analysis (months 3 and 4)</strong></td>
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<td><strong>Pre-Recorded Workshop (1h)</strong> Statistics and Data Analysis:</td>
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<td><strong>Online learning (17h)</strong></td>
<td><strong>Online learning (10h)</strong></td>
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| 3. **Intro to Statistics** by Seb Thrun  
Programming modules are optional:  
*Udacity (approx. 10-16 hours)*  
For those who use/need it:  
*SPSS Statistics Essential Training* by Barton Poulson  
[linkedin.com/learning](https://linkedin.com/learning) (5 hours 49 mins)  
| OR: |  |
| **3. Statistics Foundations 1,2,3** by Eddie Davila  
*linkedin.com/learning* (approx. 6 hours total)  
Statistics Foundations 1:  
Statistics Foundations 2:  
[https://bit.ly/2X3xOkI](https://bit.ly/2X3xOkI)  
Statistics Foundations 3:  
[https://bit.ly/304Xq1Rz](https://bit.ly/304Xq1Rz) | 4. **Managing Data Analysis**  
*Managing Data Analysis – Johns Hopkins University Coursera* (4-6 hours total)  
| **4. Data Analytics for Business Professionals** by John Johnson  
*linkedin.com/learning* (1 hour 17 mins)  
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<th><strong>Level 1</strong></th>
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<td><strong>Section 3: Presenting Your Data (months 5 and 6)</strong></td>
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<td><strong>Pre-Recorded Workshop (1h)</strong></td>
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<td>Presenting your Data:</td>
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<td><strong>Online learning (3h)</strong></td>
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<td><strong>5. Presentation Skills</strong></td>
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| a) **Picking the Right Chart for your Data** by Bill Shander  
  *linkedin.com/learning (1 hour 19 mins)*  
  *linkedin.com/learning (1 hour 15 mins)*  
| b) **7. Charts** from *Excel 2019 Essential Training* by Dennis Taylor  
  *linkedin.com/learning (10 mins)*  
  *linkedin.com/learning (1 hour 41 mins)*  
| c) **Learning Data Science: Tell Stories with Data** by Doug Rose  
  *linkedin.com/learning (1 hour 17 mins)*  
  *linkedin.com/learning (1 hour 17 mins)*  
| **Windup:** | **Windup:** |
| **Total duration for workshops and online learning:** 32h | **Total duration for workshops and online learning:** 42h |