

Data Scientist Roadmap

Learn Data Science in 3 months.

Following is a schedule to learn Data Science step by step considering **10 hours** of dedicated, focused study every single day. This roadmap is perfect for beginners with no knowledge of Data Science and Programming.

Week 1: Excel & Statistics

- **Excel**
 - **Shad Sluiter:**
<https://www.youtube.com/watch?v=VI0H-qTclOg>
- **Statistics**
 - **Simple Learning Pro:**
<https://www.youtube.com/playlist?list=PL0KQuRyPJoe6KjlUM6iNYgt8d0Dwl-IGR>

Week 2: Python

- **Python**
 - **Mike Dane:**
<https://www.youtube.com/watch?v=rfscVS0vtbw>
- **Guided Projects**
 - **Tomi Tokko:**
<https://www.youtube.com/watch?v=pty3nh1tn6I> (Try all the projects)
 - **Kylie Ying:**
<https://www.youtube.com/watch?v=8ext9G7xspg> (Try all the projects)

Week 3: Numpy & Pandas

- **NumPy**

- **Derek Banas:**

- https://www.youtube.com/watch?v=8Y0qQEh7dJg&list=PLGLfVvz_LVvQy4mkmEvtFwZGg1S38MUmn&index=

- **Pandas**

- **Derek Banas:**

- https://www.youtube.com/watch?v=PcvsOaixUh8&list=PLGLfVvz_LVvQy4mkmEvtFwZGg1S38MUmn&index=4

- ***Guided Projects***

- **Coursera:**

- <https://www.coursera.org/projects/python-for-data-analysis-numpy>

Week 4: Data Visualization Libraries

- **Matplotlib**

- **Derek Banas:**

- https://www.youtube.com/watch?v=wB9C0Mz9gSo&list=PLGLfVvz_LVvQy4mkmEvtFwZGg1S38MUmn&index=5

- **Seaborn**

- **Derek Banas:**

- https://www.youtube.com/watch?v=6GUZXDef2U0&list=PLGLfVvz_LVvQy4mkmEvtFwZGg1S38MUmn&index=6

- **Plotly**

- **Derek Banas:**

- https://www.youtube.com/watch?v=GGL6U0k8WYA&list=PLGLfVvz_LVvQy4mkmEvtFwZGg1S38MUmn&index=7

Week 5 & 6: Machine Learning

- **Machine learning**
 - **Codebasics Machine Learning:**
<https://www.youtube.com/playlist?list=PLeo1K3hjS3uvCeTYTeyfe0-rN5r8zn9rw>
- ***Guided Projects***
 - **Siddhardhan:**
https://www.youtube.com/playlist?list=PLfFghEzKVmjvuSA67LszN1dZ-Dd_pkus6
(Try atleast 5-8 projects)

Week 7 & 8: Deep Learning

- **Deep learning**
 - **Codebasics Deep Learning:**
https://www.youtube.com/playlist?list=PLeo1K3hjS3uu7CxAcxVndI4bE_o3BDtO
- ***Guided Projects***
 - **Codebasics Potato Disease Classification:**
<https://www.youtube.com/playlist?list=PLeo1K3hjS3utJFNGyBplvjWgSDY0eOE8S>
 - **Nicholas Renotte:**
<https://www.youtube.com/playlist?list=PLgNJO2hghbmiXg5d4X8DURJP9yv9pgjlu>

(Try at least 5-8 projects)

Week 9 & 10: Natural Language Processing

- **Natural Language Processing**

- **Codebasics Natural Language Processing:**
<https://www.youtube.com/playlist?list=PLeo1K3hjS3uuvuAXhYjV2IMEShq2UYSwX>

- **Guided Projects**

- **AI-ML Learning:**
<https://www.youtube.com/watch?v=LqyLpGUID1A>
- **Rob Mulla:**
<https://www.youtube.com/watch?v=QpzMWQvxXWk>

Week 11 & 12: BI Tools

If you don't have a strong reason to choose between Power BI and Tableau, I would suggest choosing Power BI as it is increasing becoming popular. Microsoft is investing a lot in this tool and accordingly to Gartner's magic quadrant, Power BI is leading the data analytics market as of 2022.

- **Power BI**

- **Edureka:**
<https://www.youtube.com/watch?v=3u7MQz1EyPY>

- **Guided Projects**

- **Codebasics Sales Insights Project:**
<https://www.youtube.com/playlist?list=PLeo1K3hjS3uva8pk1FI3iK9kCOKQdz1I9>
- **Codebasics HR Analytics Projects:**
<https://www.youtube.com/playlist?list=PLeo1K3hjS3uuVQccZa7yFwK3ltoGQOWbM>
- **Codebasics Personal Finance Management Project:**
<https://www.youtube.com/watch?v=pqSoCa2NGj4>

- **Tableau**

- **Edureka:**
<https://www.youtube.com/watch?v=aHaOlvR00So>

- **Guided Projects**

- **Codebasic Sales Insights Project:**
<https://www.youtube.com/playlist?list=PLeo1K3hjS3usDI9XeUgjNZs6VnE0meBrL>