**Data Analysis Roadmap**

**Week 1 and 2: Excel and Statistics**

* Excel
  + Google templates gallery for personal finance etc : <https://docs.google.com/spreadsheets/u/0/?ftv=1>
  + Budget planner: <https://www.vertex42.com/ExcelTemplates/budgets.html>
  + Chandoo's youtube channel: <https://www.youtube.com/channel/UC8uU_wruBMHeeRma49dtZKA>
  + Chandoo's website: <https://chandoo.org/>
* Statistics
  + Khan academy: <https://www.khanacademy.org/math/statistics-probability>
  + Khan academy youtube: <https://www.youtube.com/playlist?list=PL1328115D3D8A2566>
  + Statistics by Marin : <https://www.youtube.com/playlist?list=PLqzoL9-eJTNBZDG8jaNuhap1C9q6VHyVa>
  + Statquest youtube channel: <https://www.youtube.com/user/joshstarmer>

**Week 3, 4, 5: BI tools**

Power BI is becoming quite popular and I would suggest learning Power BI over Tableau unless you have a strong reason to pick the later.

* Power BI (project)
  + My Power BI course that can make you job ready: <https://codebasics.io/courses/power-bi-data-analysis-with-end-to-end-project>
  + codebasics sales insights project: <https://www.youtube.com/playlist?list=PLeo1K3hjS3uva8pk1FI3iK9kCOKQdz1I9>
  + personal finance project: <https://www.youtube.com/watch?v=pqSoCa2NGj4>
* Tableau
  + Codebasics sales insights project: <https://www.youtube.com/playlist?list=PLeo1K3hjS3usDI9XeUgjNZs6VnE0meBrL>
  + HINDI codebasics sales insights project: <https://www.youtube.com/playlist?list=PLPbgcxheSpE2B7YFfOualUTlRhgnQR7Kn>
  + Abhishek Agarwal: <https://www.youtube.com/playlist?list=PL6_D9USWkG1C4raCOTlTf_oq4XnNNNtm9>
  + Bharti consultancy: <https://www.youtube.com/playlist?list=PLyD1XCIRA3gQmN73dHwQWr4R08ABZFMtZ>

**Week 6 and 7: Python**

* Python
  + My Python course that is 5X better than the free playlists: <https://codebasics.io/courses/python-for-beginner-and-intermediate-learners>
  + If you do above course you do not need to follow the youtube playlists
  + Codebasics python tutorials (first 16) - <https://www.youtube.com/playlist?list=PLeo1K3hjS3uv5U-Lmlnucd7gqF-3ehIh0>
  + Codebasics python HINDI tutorials - <https://www.youtube.com/playlist?list=PLPbgcxheSpE1DJKfdko58_AIZRIT0TjpO>
  + Make sure to work on exercises in these folders: <https://github.com/codebasics/py/tree/master/Basics/Hindi>

**Week 8, 9: Numpy, Pandas, Data Visualization Libraries**

* NumPy and Pandas
  + Codebasics Numpy playlist: <https://www.youtube.com/playlist?list=PLeo1K3hjS3uset9zIVzJWqplaWBiacTEU>
  + Codebasics pandas playlist (first 9): <https://www.youtube.com/playlist?list=PLeo1K3hjS3uuASpe-1LjfG5f14Bnozjwy>
* Visualization library
  + Matplotlib: codebasics matplotlib playlist: <https://www.youtube.com/playlist?list=PLeo1K3hjS3uu4Lr8_kro2AqaO6CFYgKOl>
  + Seaborn: codebasics seaborn tutorials: <https://www.youtube.com/playlist?list=PLJIOr9Je9wzHT-ptgfelpt2Nyx4VGX_j9>
* Kaggle exploratory data analysis
  + Notebooks: <https://www.kaggle.com/notebooks>
  + Datasets: <https://www.kaggle.com/datasets>

**Week 10, 11, 12: SQL & MongoDB**

* SQL
  + kudavenkat playlist (first 16): <https://www.youtube.com/playlist?list=PL08903FB7ACA1C2FB>
  + khanacademy SQL course: <https://www.khanacademy.org/computing/computer-programming/sql>
* MongoDB
  + <https://www.coursera.org/learn/introduction-mongodb>

**Soft skills**

* Learn anything effectively: <https://www.youtube.com/watch?v=yZFrSDjRvjk>
* Group learning
  + Codebasics discord server: <https://discord.gg/r42Kbuk>
  + Hold each other accountable

**Books and other resources**

* Free book on statistics: <http://greenteapress.com/thinkstats/thinkstats.pdf>
* Another good book on statistics (not free) Naked Statistics - Charles Wheelan
* Mechanical engineer to data analyst transition success stories <https://youtu.be/34-RThWWRHM> <https://www.youtube.com/watch?v=HgE2yOHl1RU>
* BCom to data analyst transition success story <https://youtu.be/lqEzYDuTnvU>

**Resume Guidance**

* Data analyst resume review session with template resume: <https://www.youtube.com/watch?v=YKPFQUvckU0>