

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=PLPbgcxheSpE2B7YFfOualUTIRhgnQR7Kn>

- Abhishek Agarwal: https://www.youtube.com/playlist?list=PL6_D9USWkG1C4raCOTITf_oq4XnN NNtm9
- Bharti consultancy: <https://www.youtube.com/playlist?list=PLyD1XCIRA3gQmN73dHwQWr4 R08ABZFMTz>

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-LmInucd7gqF-3ehlh0>
 - 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=PLeo1K3hjS3uset9zIVzJWqplaWBiacT EU>
 - 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_kro2AqaO6CFYg KOI
 - Seaborn: codebasics seaborn tutorials: https://www.youtube.com/playlist?list=PLJIO9Je9wzHT-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=HgE2yOHI1RU>
- 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>