**M.S.Excel and Statistics:**  
 Data Filters, Functions, Formulas, charts and Plots, Pivot tables, Transpose, Vlookup,

VBA macros.  
  
<https://github.com/codebasics/py/blob/master/TechTopics/DataAnalystRoadMap2020/data_analyst_learning_path_2020.md>

**(Excel Projects)**

1. Google templates gallery for personal finance etc :  
     
   <https://docs.google.com/spreadsheets/u/0/?ftv=1>
2. Budget planner:  
     
   <https://www.vertex42.com/ExcelTemplates/budgets.html>
3. Chandoo's YouTube channel:  
   <https://www.youtube.com/channel/UC8uU_wruBMHeeRma49dtZKA>
4. 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

* Tableau
  + Abhishek Agarwal: <https://www.youtube.com/playlist?list=PL6_D9USWkG1C4raCOTlTf_oq4XnNNNtm9>
  + Bharti consultancy: <https://www.youtube.com/playlist?list=PLyD1XCIRA3gQmN73dHwQWr4R08ABZFMtZ>
* Power BI (project)
  + codebasics sales insights project: <https://www.youtube.com/playlist?list=PLeo1K3hjS3uva8pk1FI3iK9kCOKQdz1I9>

### Week 6 and 7: Python

* Python
  + 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>
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