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

- o Abhishek
  Agarwal: https://www.youtube.com/playlist?list=PL6_D9USWkG1C4raCOTlTf_oq4XnNNNtm9
- o Bharti
  consultancy: https://www.youtube.com/playlist?list=PLyD1XCIRA3gQmN73dHwQWr4R08ABZFMtZ

Week 6 and 7: Python

- Python
  - o My Python course that is 5X better than the free
    playlists: https://codebasics.io/courses/python-for-beginner-and-intermediate-learners
  - o If you do above course you do not need to follow the youtube playlists
  - o Codebasics python tutorials (first 16)
    - https://www.youtube.com/playlist?list=PLeo1K3hjS3uv5U-Lmlnucd7gqF-3ehIh0
  - o Codebasics python HINDI tutorials
    - https://www.youtube.com/playlist?list=PLPbgcxheSpE1DJKfdko58_AIZRIT0TjpO
  - o 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

  - o Codebasics Numpy
    playlist: https://www.youtube.com/playlist?list=PLeo1K3hjS3uset9zIVzJWqplaWBiacTEU
  - o Codebasics pandas playlist (first
    9): https://www.youtube.com/playlist?list=PLeo1K3hjS3uuASpe-1LjfG5f14Bnozjwy

- Visualization library

  - o Matplotlib: codebasics matplotlib
    playlist: https://www.youtube.com/playlist?list=PLeo1K3hjS3uu4Lr8_kro2AqaO6CFYgKOl
  - o Seaborn: codebasics seaborn
    tutorials: https://www.youtube.com/playlist?list=PLJIOr9Je9wzHT-ptgfelpt2Nyx4VGX_j9

- Kaggle exploratory data analysis

  - o Notebooks: https://www.kaggle.com/notebooks
  - o 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