Data Analyst Roadmap 2025 - Weekly Study Plan (with Free Resources)

Week 1-2: SQL (Basics)

Goal: Learn SQL basics, including queries, data extraction, and data manipulation.

Topics Covered: SELECT, WHERE, GROUP BY, ORDER BY, joins.

YouTube Videos:
SQL for Beginners by FreeCodeCamp – https://www.youtube.com/watch?v=HXV3zeQKqGY

SQL Tutorial - Full Database Course for Beginners by Bro Code - https://www.youtube.com/watch?v=5hzZtqCNQKk

Week 3: SQL (Advanced Queries)

Goal: Master advanced SQL concepts and work with complex datasets.

Topics Covered: Subqueries, nested queries, window functions.

YouTube Videos:
Advanced SQL Tutorial by Programming with Mosh - https://www.youtube.com/watch?v=7S_tz1z_5bA&ab_channel=ProgrammingwithMosh

Week 4-5: Excel (Basics to Intermediate)

Goal: Understand Excel basics, formulas, data cleaning, and analysis.

Topics Covered: Basic functions, data validation, pivot tables, lookup functions, data cleaning.

YouTube Videos:
Excel Beginner Tutorial by Lokesh Lalwani - https://www.youtube.com/c/LearnwithLOKESHLALWANI

Learn Excel Basics by Leila Gharani -
https://www.youtube.com/watch?v=0tdlR1rBwkM&ab_channel=LeilaGharani

Week 6-7: Excel (Advanced)

Goal: Learn advanced Excel skills for data analysis.

Topics Covered: Advanced formulas, macros, dynamic charts, dashboards.

YouTube Videos:
Advanced Excel Tutorial for Data Analysis by Chandoo -
https://www.youtube.com/watch?v=v2oNWja7M2E&ab_channel=Chandoo

Excel Dashboards from Scratch by Lokesh Lalwani –
https://www.youtube.com/watch?v=ZrN6CHcJuNg&t=12s&ab_channel=LearnWithLokesh
Lalwani

Week 8: Python (Basics)

Goal: Learn the basics of Python programming, focusing on data analysis.

Topics Covered: Python syntax, data types, control structures, basic functions.

YouTube Videos:
Python for Beginners by Programming with Mosh -
https://www.youtube.com/watch?v=kqtD5dpn9C8&ab_channel=ProgrammingwithMosh

Week 9: Python (Data Analysis with Pandas)

Goal: Use Python for data analysis using libraries like Pandas and NumPy.

Topics Covered: Dataframes, data cleaning, data manipulation.

YouTube Videos:
Python Pandas Tutorial by Keith Galli -
https://www.youtube.com/watch?v=vmEHCJofslg&ab_channel=KeithGalli

Data Analysis with Python by FreeCodeCamp -
https://www.youtube.com/watch?v=GPVsHOlRBBI

Week 10-11: Power BI (Basics to Intermediate)

Goal: Get hands-on with Power BI for data visualization and reporting.

Topics Covered: Importing data, creating visuals, working with DAX, building dashboards.

YouTube Videos:
Power BI Tutorial for Beginners by Learn with Lokesh Lalwani -
https://www.youtube.com/watch?v=kSmcQiO7z4Y&ab_channel=LearnWithLokeshLalwani

Week 12: Project Week

Goal: Apply all your skills in a final project using SQL, Excel, Python, and Power BI.

Topics Covered: Create a sales dashboard using SQL for data extraction, Excel for cleaning, Python for analysis, and Power BI for visualization.

YouTube Videos:
Data Analyst Real Life Project Tutorial by Alex the Analyst -
https://www.youtube.com/watch?v=qfyynHBFOsM&list=PLUaB-1hjhk8H48Pj32z4GZgGWyylqv85f&ab_channel=AlexTheAnalyst

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Bonus:

Join My Free Masterclass!
Ready to kickstart your journey into the world of data analytics? Join my free masterclass on **"How to become a High Paying Data Analyst in 2025"**. In this free online masterclass, i'll share a complete road-map to became a high paying Data Analyst with minimum salary package pf 6 LPA. Here is the link to join this free masterclass:

https://event.webinarjam.com/register/14/691x7b2

Sign up today and take the first step toward transforming your future!

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