

Bootcamp Introduction

1. FREE Data Analyst Bootcamp!! – Overview of the bootcamp structure and goals.
2. How to Become a Data Analyst in 2023 (Completely FREE!) – Career roadmap and skills needed.

MySQL (Databases & SQL)

3. Installing MySQL and Creating Databases – Setup and basics of database creation.
4. Select Statement in MySQL – Retrieving data from tables.
5. Where Clause in MySQL – Filtering data with conditions.
6. Group By + Order By in MySQL – Aggregating and sorting results.
7. Having vs Where in MySQL – Difference between filtering groups vs rows.
8. Limit + Aliasing in MySQL – Restricting results and renaming columns.
9. Joins in MySQL – Combining data across tables.
10. Unions in MySQL – Merging multiple queries.
11. String Functions in MySQL – Manipulating text data.
12. Case Statements in MySQL – Conditional logic in queries.
13. Subqueries in MySQL – Nesting queries inside others.
14. Window Functions in MySQL – Advanced analytics functions.
15. CTEs in MySQL – Common Table Expressions for modular queries.
16. Temp Tables in MySQL – Creating temporary storage.
17. Stored Procedures in MySQL – Automating query execution.
18. Triggers and Events in MySQL – Automating actions on data changes.
19. Data Cleaning in MySQL (Full Project) – Real-world cleaning project.
20. MySQL Exploratory Data Analysis (Full Project) – EDA using SQL.

Excel

1. **Pivot Tables in Excel** – Summarizing data.
2. **Formulas in Excel** – Essential functions.
3. **XLOOKUP in Excel** – Advanced lookup function.
4. **Conditional Formatting in Excel** – Highlighting data patterns.
5. **Charts in Excel** – Visualizing data.
6. **Cleaning Data in Excel** – Preparing datasets.
7. **Full Project in Excel** – End-to-end project.

Tableau

28. Install Tableau & First Visualization – Setup and basics.
29. Calculated Fields and Bins – Custom calculations.
30. Create Visualizations in Tableau – Building charts.
31. Joins in Tableau – Combining datasets.
32. Full Beginner Project in Tableau – Guided project.

Power BI

- 33 Install Power BI & First Visualization – Setup and basics.
- 34 Power Query in Power BI – Data transformation.
- 35 Relationships in Power BI – Linking tables.
- 36 DAX in Power BI – Formula language.
- 37 Drill Down in Power BI – Interactive visuals.
- 38 Conditional Formatting in Power BI – Styling visuals.
- 39 Bins and Lists in Power BI – Grouping data.
- 40 Popular Visualizations in Power BI – Common chart types.
- 41 Full Power BI Guided Project – End-to-end project.

Python Basics

42. Installing Jupyter/Anaconda – Setup environment.
43. Variables in Python – Storing values.
44. Data Types in Python – Numbers, strings, lists, etc.
45. Operators in Python – Comparison, logical, membership.
46. If Else Statements in Python – Conditional logic.
47. For Loops in Python – Iteration.
48. While Loops in Python – Repetition.
49. Functions in Python – Reusable code blocks.
50. Converting Data Types in Python – Casting values.
51. BMI Calculator Project – Beginner project.
52. Automated File Sorter Project – Organizing files

Web Scraping

53. Inspecting Web Pages with HTML – Basics of scraping.
54. BeautifulSoup + Requests – Libraries for scraping.
55. Find and Find_All – Extracting elements.
56. Scraping Data from a Real Website – Full project.

Pandas (Python Data Analysis)

57. Reading Files in Pandas – Importing data.
58. Filtering Columns and Rows – Selecting subsets.
59. Indexes in Pandas – Managing row labels.
60. Group By and Aggregate Functions – Summarizing data.
61. Merging DataFrames – Combining datasets.
62. Visualizations with Pandas – Plotting data.
63. Data Cleaning in Pandas – Handling messy data.
64. Exploratory Data Analysis in Pandas – EDA project.

Portfolio Projects

65. Amazon Web Scraping Project – Real-world scraping.
66. Automating Crypto API Pull – API data project.
67. Create a Portfolio Website for FREE – Showcase projects.
68. Perfect Data Analyst Resume – Resume tips.

SQL Interview Prep

69. Easy SQL Interview Questions – Practice problems.
70. Medium SQL Interview Questions – Intermediate practice.
71. Hard SQL Interview Questions – Advanced practice.
72. Very Hard SQL Interview Questions – Challenging problems.

Cloud Fundamentals

Azure

73. **Azure Account Setup + Free Credits** – Getting started.
74. **Blob Storage & Storage Accounts** – Basics of storage.
75. **Azure SQL Databases** – Cloud SQL.
76. **Azure Data Factory** – Data pipelines.
77. **Azure Synapse Analytics** – Big data analytics.

AWS

78. **AWS Setup & UI Walkthrough** – Basics.
79. **S3 Storage in AWS** – Object storage.
80. **Amazon Athena in AWS** – Querying data.
81. **AWS Glue DataBrew and Glue** – Data prep.
82. **AWS QuickSight** – Visualization tool.

