



PDF STUDY MATERIAL • UNCODEMY

Data Analytics Projects

Notes, roadmaps and practice material, curated by the Uncodemy trainer team.



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Quick answer



Good analytics projects start from a business question, use a real or realistic dataset and end with a clear insight. Below are project ideas by domain, with the skills each one builds.



Clear concepts

Short, plain-language explanations



Hands-on practice

Examples and exercises to try yourself



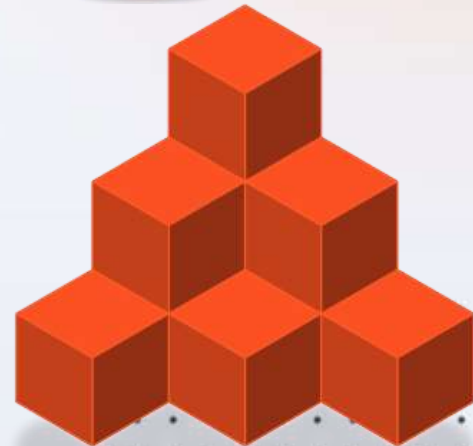
Job-focused prep

Questions and checklists for interviews

What makes a good data analytics project?



A good project answers a real question with data and shows your process. It uses a dataset with enough rows to need cleaning, includes at least one chart or dashboard, and ends with findings and a recommendation. A small project explained well is worth more than a large one explained badly.



Project ideas by domain

Domain	Project	Skills practised	Deliverable
Retail	Sales performance analysis	Excel, SQL, pivot tables, KPIs	Dashboard plus a short insight report
Banking	Customer segmentation	SQL, Python, grouping, charts	Segment profiles and recommendations
HR	Employee attrition analysis	Cleaning, statistics, Power BI	Attrition drivers and a dashboard
E-commerce	Funnel and repeat-purchase analysis	SQL, cohorts, Power BI	Funnel chart and retention view
Healthcare	Appointment no-show analysis	Python, EDA, visual storytelling	Findings by patient group
Marketing	Campaign performance review	Excel, SQL, conversion metrics	Channel comparison and budget advice

Steps for any project

1

Write the business question in one sentence.

2

Find or create a dataset and note its source and licence.

3

Clean the data and record every change.

4

Explore: summaries, trends, comparisons.

5

Build the dashboard or charts that answer the question.

6

Write findings and a recommendation; publish it with a clear README.

Common mistakes



No question: a pile of charts is not a project.



Hiding the cleaning: reviewers want to see how you handled bad data.



Using copied work: present only work you understand and can explain.



No write-up: the explanation is what employers read.

How to use these PDFs



STEP 1

Read the roadmap

Start at the stage that matches your level.



STEP 2

Practise each topic

Try it yourself instead of only reading.



STEP 3

Revise key concepts

Use the tables before an interview or exam.



STEP 4

Move to the next stage

Go on when you can explain this one in your own words.

Your Data Analytics Projects PDF set



2–3 PDF files, each its own download



Study material for learning and revision



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Study material only. Not a certificate or a job guarantee.

Frequently asked questions



What are good data analytics projects for beginners?

Sales analysis, customer segmentation, HR attrition and marketing campaign analysis are good starters because the data is easy to understand and the questions are clear.



Where can I find datasets for data analytics projects?

Public sources such as government open-data portals and open dataset sites are common choices. Always note the source and check its licence.



How many projects should I have before applying for jobs?

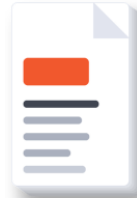
There is no fixed number. Three to five well-explained projects across different problem types are usually more convincing than many shallow ones.

Related UnCodemy PDF resources



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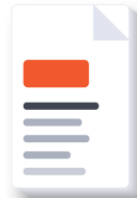
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Data Analytics Program at a glance



6-7 Months

Program Duration



120+ Hours

of Learning



75+

Live Sessions



10+

Tools & Technologies



Projects

Hands-on Projects & Case Studies



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