



PDF STUDY MATERIAL • UNCODEMY

Data Analytics Capstone Guide

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



uncodemy.com/data-analytics-capstone-guide-pdf





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Quick answer



A capstone is the largest project of a learning programme: it takes one realistic problem from raw data to a recommendation using several skills together. Good capstones start from a clear question and are explained, not just built.



Clear concepts

Short, plain-language explanations



Hands-on practice

Examples and exercises to try yourself



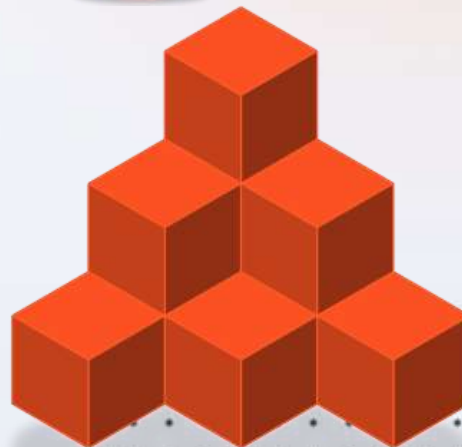
Job-focused prep

Questions and checklists for interviews

What is a capstone project?



A capstone brings together everything you have learned, such as SQL, Excel, a BI tool and statistics, in one end-to-end piece of work. It is longer and more open-ended than a practice exercise. Employers value it because it shows you can plan, work through messy data and communicate a decision.



Capstone plan



01

Problem

Pick a real question with a decision attached

One-page problem statement



02

Data

Find, collect and document the data

Data dictionary and source notes



03

Cleaning

Fix missing values, duplicates and errors

Clean dataset and cleaning log



04

Exploration

Summaries, trends, comparisons

Key findings list



05

Analysis

Answer the questions with queries, statistics or models

Charts and calculations



06

Communication

Dashboard, report and a short presentation

Final deliverables

A simple self-review checklist



Is the question specific and answerable?



Can someone reproduce your numbers?



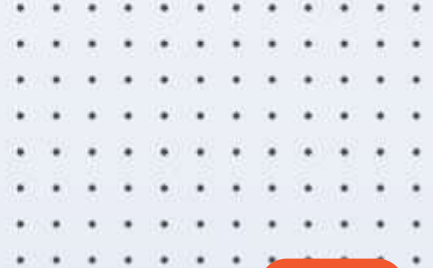
Did you state the limits of the data?



Does every recommendation trace back to a finding?



Can you explain the work without reading your notes?



Common mistakes



Choosing a topic that is too broad.



Spending all the time on charts and none on the question.



Leaving the presentation to the last day.



Not documenting decisions: you will forget why you made them.

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 Capstone Guide PDF set



2-3 PDF files, each its own download



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PDF 1



PDF 2



PDF 3

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Frequently asked questions



What is a capstone project in data analytics?

A capstone is a large end-to-end project that takes a realistic business problem from raw data to a recommendation using several skills together.



How do I choose a capstone topic?

Choose a question that interests you, has enough available data, and leads to a decision someone could act on. Avoid topics that are too broad.



How long should a capstone project take?

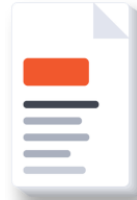
It depends on the programme and your pace. Plan the phases first and give extra time for data cleaning, which usually takes longer than expected.

Related UnCodemy PDF resources



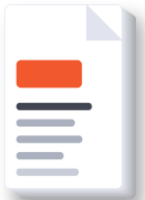
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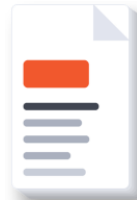
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Data Analytics Program at a glance



6-7 Months

Program Duration



120+ Hours

of Learning



75+

Live Sessions



10+

Tools & Technologies



Projects

Hands-on Projects & Case Studies



Career

Dedicated Career & Placement Assistance

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