



PDF STUDY MATERIAL • UNCODEMY

Data Analytics with GenAI

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



uncodemy.com/data-analytics-with-genai-pdf





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Quick answer



Generative AI can speed up an analyst's work by drafting SQL, explaining Python errors and summarising findings, but every output must be verified, and sensitive data must never be pasted into public tools.



Clear concepts

Short, plain-language explanations



Hands-on practice

Examples and exercises to try yourself



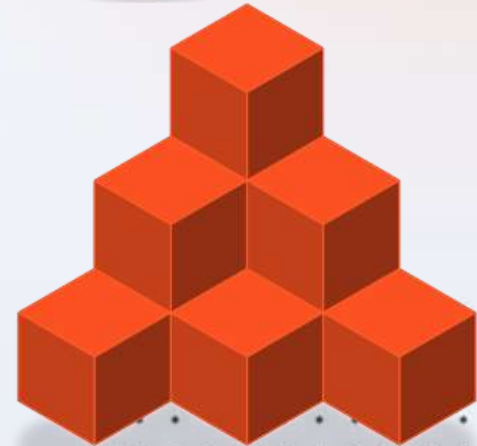
Job-focused prep

Questions and checklists for interviews

What does GenAI change for a data analyst?



Generative AI tools can draft queries, explain unfamiliar code, suggest chart types and turn findings into plain-language summaries. This saves time on routine work, but it does not replace analytical judgement. A model can write a SQL query that runs but answers the wrong question, or invent a number that looks plausible. The analyst remains responsible for the result.



Where GenAI helps and what you must check

Task	How GenAI helps	What you must verify
Writing SQL	Drafts queries from a plain-language request	Joins, filters and the row counts against the source
Python and Pandas	Suggests code, explains errors	That the code does what you intend, on a small sample first
Excel and Power BI	Suggests formulas and DAX, helps build visuals	Totals and edge cases
Summarising findings	Turns results into a short narrative	Every figure quoted in the summary
Data cleaning ideas	Proposes cleaning steps	That no valid records are removed by mistake

A safe workflow

1

Define the business question first, in your own words.

2

Give the tool the table structure, never real customer data.

3

Ask for code or a formula and an explanation.

4

Run it on a small sample and compare with a result you can verify by hand.

5

Record what you asked and what you changed.

Risks to manage



Hallucination: confident but wrong output.



Privacy: personal or company data pasted into public tools may breach policy.



Over-reliance: if you cannot explain the query, you cannot defend it in an interview or...



Bias: AI summaries can overstate weak patterns.

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 with GenAI PDF set



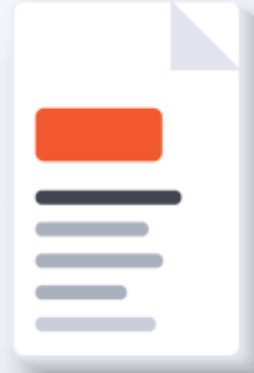
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Frequently asked questions



How is generative AI used in data analytics?

Analysts use generative AI to draft SQL and Python, explain errors, suggest formulas and charts, and summarise findings. The analyst must still verify every output.



Can GenAI replace a data analyst?

No. GenAI can speed up routine tasks, but defining the right question, checking data quality and judging results still need a human analyst.



Is it safe to paste company data into AI tools?

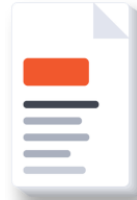
Not into public tools unless your organisation allows it. Share table structures or anonymised samples instead of real customer or company data.

Related UnCodemy PDF resources



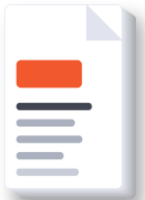
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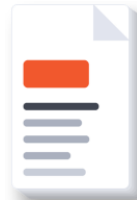
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Data Analytics Program at a glance



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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