

Data Analyst Project Ideas PDF Page

Data Analyst Project Ideas PDF Page: Content + <head> (Uncodemy)

FINAL URL: <https://uncodemy.com/data-analyst-project-ideas-pdf>

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Prepared: 26 October 2026 · **Primary keyword:** data analyst project ideas pdf · **Search volume:** not checked (keyword tool out of credits); verify in Search Console.

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PART 1: Page plan

Item	Decision
Final URL	https://uncodemy.com/data-analyst-project-ideas-pdf
Intent (anti-cannibalisation)	LIST OF PROJECT IDEAS by level with deliverables. How to write and publish them is on the portfolio guide page.
Why not thin	Explainer-style sections, FAQs and cross-links make the page useful even without a download
Schema	WebSite, Organization, Breadcrumb, CollectionPage, FAQPage (only FAQs visible on the page). PDF <code>ItemList</code> provided commented, to enable after titles are final
Share image	https://uncodemy.com/image/logo-og.jpg for now; custom 1200x630 card recommended

PART 2: Page content (copy-paste ready)

SEO Title (41 chars):

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Meta Description (137 chars):

Download the data analyst project ideas PDF from Uncodemy: beginner to advanced project ideas with data sources, skills and what to show.

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Byline: Prepared by the Uncodemy trainer team [CONFIRM: author name and role] · Reviewed by [CONFIRM: reviewer name and role] · Last reviewed: [DATE]

Quick Answer

This page offers Uncodemy's data analyst project ideas as a PDF download. The ideas are grouped by level and each lists the business question, the kind of data to look for, the method and the deliverable. Use public data, state clearly that it is a practice project and focus on a recommendation rather than only a chart.

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Same rule. [Download PDF] → <https://uncodemy.com/pdf/data-analyst-project-ideas-3.pdf>

Each button must open its own file. Do not point several buttons at one file. Delete unused optional cards.

What makes a good project idea

A good project idea starts from a question someone could plausibly ask at work, not from a dataset or a tool. It has data you can legally obtain, a clear scope you can finish in two to four weeks and a deliverable you can show: a dashboard, a notebook or a short report. It also leaves room for your own judgement, such as choosing metrics, handling messy data and deciding what to recommend. The ideas below follow this pattern. Each is a seed to adapt, so add your own angle and local context.

Beginner ideas (Excel and SQL focus)

Idea	Question	Method	Deliverable
Retail sales summary	Which products and months drive revenue?	Clean the data, pivot by product and month, chart trends	Workbook with a summary sheet
Student performance analysis	What factors relate to higher scores?	Group averages, correlation, simple charts	Short report with three findings
Personal budget tracker	Where does the money go each month?	Categorise expenses, summarise by category	Dashboard in Excel
SQL practice on a sample store database	Who are the top customers and products?	Joins, grouping and ranking queries	Query file with comments

Intermediate ideas (BI and Python focus)

Idea	Question	Method	Deliverable
Customer segmentation by purchase behaviour	Which customers are most valuable?	Recency, frequency and monetary value scoring	Notebook plus segment dashboard
Delivery time analysis	What causes late deliveries?	Compare by carrier, warehouse, weekday	Dashboard with a recommendation
Marketing channel return	Which channel gives the lowest cost per customer?	Cost per lead and per customer, trend by month	One-page summary
Public transport or air-quality trends	How do values change by time and place?	Time-series cleaning and plots	Notebook with annotated charts
Churn analysis for a subscription dataset	Who leaves and when?	Cohort retention tables	Retention heatmap and recommendations

Advanced ideas (end-to-end focus)

Idea	Question	Method	Deliverable
A/B test analysis	Did the new design improve conversion?	Two-proportion comparison with confidence interval	Decision memo
Sales forecasting baseline	What might next quarter look like?	Seasonal averages and a simple forecast with error measure	Notebook and plain-language summary
Automated weekly report	Can the report be produced without manual work?	Python script that loads, cleans and exports charts	Repository with schedule notes
Data warehouse mini-model	How should orders and customers be modelled?	Fact and dimension tables in SQL	Diagram and queries

Adapting an idea to make it yours

Employers see many projects on the same few datasets. To stand out, change one thing. Use a dataset from your city or an industry you know. Combine two sources, such as sales with weather or holidays. Ask a second-level question, such as why a trend changed rather than only that it changed. Or end with an operational output such as a monthly report that could really be used. The difference between a copied project and an original one is usually a sharper question and a clearer recommendation.

Example: recency, frequency and monetary value in SQL

A starting point for the customer segmentation idea. Table and column names are illustrative.

```
SELECT customer_id,
       MAX(order_date) AS last_order,
       COUNT(*)        AS frequency,
       SUM(order_total) AS monetary
FROM orders
WHERE status <> 'cancelled'
GROUP BY customer_id
ORDER BY monetary DESC
LIMIT 20;
```

A project plan you can follow

1. Write the business question and success criteria.
2. Find and document the data source and licence.
3. Profile and clean the data, keeping a cleaning log.
4. Analyse in stages, noting what each step shows.
5. Build charts or a dashboard for a named audience.
6. Write the README with findings, recommendation and limits.

Common mistakes in projects

- **Choosing a huge scope** and not finishing.
- **No recommendation**, only descriptions.
- **Ignoring data quality** because it is boring.
- **Copying code you cannot explain.**
- **Using personal or confidential data.**

Scoping to finish

A finished small project is worth more than an ambitious unfinished one. Fix a deadline, cut features until it fits and add extras only after the core is complete. Share early drafts with a mentor or peers and use their questions to improve the story.

Deliverables recruiters can open quickly

Format	Good for	Tip
README on GitHub	Showing process and code	Put findings at the top, not at the bottom
Published dashboard	Showing communication	Add a short text box explaining how to use it
Notebook with commentary	Showing analysis	Clear markdown headings between code cells
Two-page PDF summary	Applications and interviews	Question, method, result and recommendation

Choosing between ideas

If you are unsure which idea to build, score each one on three points: does it interest you, can you obtain the data easily, and can you finish it in about three weeks? Choose the idea with the highest total. Interest sustains you through the boring cleaning stage, available data prevents a stall in week one and a small scope protects you from abandoning the project. Once you finish one, the next will be faster.

Related Uncodemy resources

- [Data Analyst Portfolio Guide PDF](#)
- [Real-World Datasets for Data Analytics PDF](#)
- [Data Analytics End-to-End Project Guide PDF](#)
- [Data Analytics Projects PDF](#)

Learn with a trainer [use only the line that is true]

- **Data Analytics course:** <https://uncodemy.com/course/data-analytics-training-course-in-noida>. URL verified on the live site.

(One soft call to action: course link or free demo. No pop-up.)

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Frequently Asked Questions

What are good data analyst project ideas for beginners?

Retail sales summaries, student performance analysis, a personal budget tracker and SQL practice on a sample store database are good starters with clear questions.

What project should I build for a data analyst interview?

Choose a project you can explain fully, with a clear business question, documented cleaning, a defensible method and a recommendation.

Where do I get data for my project?

Use public sources such as Kaggle, the UCI repository, data.gov.in and World Bank Open Data, and check each licence.

How long should a portfolio project take?

Two to four weeks is a reasonable scope for a first project. Keep the scope small enough to finish.

Should I include dashboards or notebooks?

Include both when possible: a dashboard shows communication and a notebook shows analytical process.

Are these PDFs free to download?

[CONFIRM: state clearly whether the PDFs are free, or whether a short form is needed first.]

The last FAQ contains [CONFIRM], so it is NOT in the FAQ schema. Fill it and keep it on the page, or delete it.

PART 3: <head> section (copy-paste ready)

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