

## Terno AI Internship Challenge

### Objective:

Choose a dataset, define a real-world analytics problem, and build a working analysis or prediction pipeline. Submit:

- A working notebook
- A blog-style write-up
- Insights as if you were using Terno

### What You'll Do:

1. Pick one dataset from the 3 provided:
  - healthcare\_costs.csv
  - ecommerce\_churn.xlsx
  - fraud\_transactions.json
2. Define a real use case
  - Write a short problem statement
  - Example: "Predict churn using user activity data"
3. Build a mini-pipeline (in a notebook)
  - Clean the data
  - Do basic EDA (exploratory data analysis)
  - Train 1 basic ML model (classification or regression)
  - Evaluate results with at least 1 metric
4. List out the questions you would ask(answer) in order to solve the defined. This lets us see how well you understand AI-assisted workflows. Include these analyses in your

notebook and show how you find them.

5. Write a short creative blog (300–500 words)

- Describe the problem
- Summarize what you did and learned
- Discuss a real-world outcome or potential real world impact

**Note:**

- You are free to use any LLMs/GPTs, feel free to do your own research.
- We would love to see your creativity in framing questions and communicating them in the blog and notebook effectively.

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**What to Submit:**

File	Description
notebook.ipynb	Clean and working with markdown commentary
blog_draft.md	Simple write-up of the use case
(optional) bonus.py	Extra utility code if applicable

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**Evaluation Criteria**

Category	Description
Problem Definition	Practical and realistic use case

Code Quality

Well-structured, readable code

ML Reasoning

Reasonable model choice + evaluation

Storytelling

Blog is concise and interesting

Authenticity

Work clearly reflects candidate's own effort

### **Suggested Time Commitment**

4–6 hours (over 1–2 days)