

Take Home Assignment

Senior Data Engineer




Estimated time: 5–6 hours



TASK: Enrich Charging Sites with POI Data

Assignment Tasks Overview

You'll complete 4 main tasks:

1.  **Discovery**

2.  **Data Enrichment**

3. 

 **Output Data For**

Task 1 — POI Data Acquisition

Select a **public POI API**

(Recommend OpenStreetMap or Google Maps API)

Query POIs using site coordinates within a **100m radius**

For example, find:





 supermarket |  gas station |  fast food

Task 2 — Data Enrichment

- For each POI, create a **summary POI object**
- Design the structure in a way that adds value and context
- This data might be used in performance analysis

Task 3 — ETL Pipeline

Build a solution that:

-  Loads the raw site data
-  Queries the POI API
-  Joins the data
-  Outputs a combined dataset

Task 4 — Output Format

 Save dataset in **flattened format**:

 CSV or Parquet

Make it easy to parse, analyze, and interpret.

Final Deliverables

Please submit:

1. ✓ Python Jupyter notebook
2. ✓ Enriched output file (CSV or Parquet)
3. ✓ README including:
 - How to **run the code**
 - Known **limitations** or improvement ideas

Thank you!