

SI 201 Project 1 checkpoint

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Dataset: *Sample Superstore* (Kaggle) – CSV file

File path (planned): `data/sample_superstore.csv`

Columns I Will Use

- `Region` (text) – geographic region of the order
 - `Category` (text) – high-level product category
 - `Sub-Category` (text) – specific product subcategory
 - `Sales` (numeric) – dollar amount of the sale
 - `Profit` (numeric) – dollar profit from the sale
 - `Order Date` (date) – used for month/year grouping if needed
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Calculations I Will Perform (solo = 2 total)

1. Region Profitability Summary

- For each `Region`, compute:
 - `total_sales` (sum of `Sales`)
 - `total_profit` (sum of `Profit`)
 - `profit_margin` = `total_profit / total_sales`
- Uses: `Region`, `Sales`, `Profit`
- Output to: `results/region_profitability.csv`

2. Top Subcategories by Average Order Value (AOV) in Each Region

- For each `Region`, compute the average `Sales` per `Sub-Category`.

- Return the **top 5 subcategories** per region by AOV (break ties alphabetically).
- Uses: `Region` , `Sub-Category` , `Sales`
- Output to: `results/top_subcats_by_region.csv`

Collaborators: No collaborators

Function Decomposition Diagram:

