

Data Cleaning Documentation – Apartments.com

Sample Data

For this phase, our sample data is generated directly by running `apartment_finder.py` on Apartments.com search results page. The script outputs a CSV file with one row per unit or single-property listing.

Example rows:

```
Street,City,State,Zipcode,Unit,Rent,SqFt,Bedrooms,Bathrooms,Available
"123 Main St","Portland","ME","04101","1A",2100,650,1,1,1 (multi-unit)
"456 Oak St","Portland","ME","04102","","2500,1200,3,1,1 (single-unit)
```

- **Multi-Unit Properties** (e.g., apartment complexes) produce multiple rows with different unit values
- **Single-Unit Properties** (e.g., townhouses or houses) produce a single row with a possibly empty unit field

Data Cleaning Documentation

We applied basic cleaning steps to the scraper to make sure the data is consistent and useful

- **Address Normalization:** The raw address is cleaned and split into Street, Zipcode, City and State. If a single unit listing contains a unit label as part of the street component of its address, it is removed from the street value and inserted into the unit value. This makes sure each component can be indexed and filtered into MainePad Finder.
- **Multi-Unit vs Single-Unit:** We validated Multi-Unit and Single-Unit separately:
 - If the page contains a multi-unit pricing view, it is treated as a multi-unit property. Each row is parsed into a separate CSV row.
 - If no multi-unit pricing view is found, the listing is treated as a single-unit property and written as one row with a possibly empty unit value
- **Availability:** Availability is mapped to a binary field. Any values such as 'Now' or 'Available' are recorded as a '1', whereas anything else is '0'.
- **Duplicates:** Before inserting, each row is checked if there are duplicates.
- **Conversions:** Rent, square footage, bedrooms and bathrooms are parsed from text; dollar signs, commas and labels are removed so values can be stored as integers.

Validation

Each team member validated their own parsing logic: one focused on multi-unit tables, the other on individual listings, and both cross-checked outputs against the live site.

- Verified that addresses, unit labels, and rent values match Apartments.com

- Removed unnecessary text included as a byproduct of Apartments.com formatting
- Confirmed that single-unit listings are recorded once with a blank 'unit' field unless included in the street portion of the address, and multi-units are expanded into multiple rows

