



AI/ML Training Report – Week 1

-> **Day 2 – 25 June 2025**

Topic: Pandas Library and Python Loops

Pandas is a powerful Python library for working with datasets. I also revised and practiced loops in Python using real-world tasks.

-> **Work Done:**

- Used Pandas to read, analyze, and describe CSV data
- Learned how to use DataFrames and Series in Colab
- Practiced for and while loops with conditions

-> **Programs Implemented:**

- Loaded and analyzed sample datasets using Pandas
- Created a dynamic Grocery List program using a while loop

-> **Learnings:**

- Learned how to manipulate and summarize data using Pandas
- Understood the role of loops in dynamic input-based programs
- Gained clarity on breaking and controlling infinite loops

to make a empty list and then take input of grocery items to store in the list :-

```
grocery_list = []
```

```
while True:
```

```
    item = input("\nEnter an item for the grocery list (type 'done' to finish): ")
```

```
    if item.lower() == "done":
```

```
        break
```

```
    grocery_list.append(item)
```

```
print("\nYour grocery list is:")
```

```
print(grocery_list)
```