

## Day 1 Tasks

### 1. Set up working environment (browser-based)

- Create GitHub account (if not already)
- Use GitHub in browser
- Use Google Colab for coding

### 2. Create main GitHub repository

- Repository name: `ai-data-scientist-roadmap`
- Add:
  - `README.md`
  - `.gitignore` (Python)
  - `LICENSE` (MIT)

### Create folder structure

```
Month_01/  
  Day_01/  
  datasets/
```

3.

### 4. Practice Python fundamentals

- Variables and data types
- Lists, dictionaries
- Loops
- Functions
- Conditional statements

### 5. Write simple data-cleaning functions

- Handle missing values

- Clean text data
- Validate numeric values
- Identify duplicates

## 6. Load a small dataset

- Load CSV using pandas
- Check:
  - `.head()`
  - `.info()`
  - `.shape`
  - missing values

## 7. Understand the data

- What each column represents
- What one row means
- Identify possible data issues

## 8. Write notes

- What is data?
- What is a feature?
- What problems can bad data cause?
- What you learned today

## 9. Update README

- Mention Day 1 work briefly

## 10. Commit all changes

- One clean commit for Day 1

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## Goal of Day 1

- Start execution
- Build discipline
- Touch real data
- Push real work to GitHub