

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

Goal of Day 1

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