1. Prerequisites

Ensure you have the following installed:

1. **Python**: Download and install Python from python.org.
2. **VS Code**: Download and install Visual Studio Code from code.visualstudio.com.

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2. Install Required Extensions

1. Open VS Code.
2. Go to the Extensions view by clicking on the Extensions icon in the Activity Bar (or press `Ctrl+Shift+X` / `Cmd+Shift+X`).
3. Search for and install:
   - **Python Extension** (Microsoft)
   - **Jupyter Extension** (Microsoft)

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3. Install Jupyter

1. Open the terminal in VS Code

Install Jupyter using pip:
```
pip install notebook
```

2.

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4. Create a New Jupyter Notebook

1. Open VS Code and create a new file (`Ctrl+N` / `Cmd+N`).
2. Save the file with a `.ipynb` extension, e.g., `example.ipynb`. This automatically makes it a Jupyter Notebook.
3. The notebook interface will open in VS Code, showing cells where you can write Python code.

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5. Set Up Your Python Environment

1. If VS Code asks you to select a kernel, choose your Python interpreter (environment).

- ○ Click on the kernel selector in the top-right corner of the notebook interface.
- ○ Choose the Python environment where Jupyter is installed.
2. If no environment is available, create one:

Create a virtual environment:
```
python -m venv venv
```

Activate it:

On Windows:
```
venv\Scripts\activate
```

6. Install libraries

Pip install pandas
Or
pip install -r requirements.txt