Setting Up a Python Environment

Introduction

- This presentation will guide you through setting up a Python environment for development.
- We will cover:
 - Python installation
 - Creating a virtual environment
 - Installing Jupyter Notebook
 - Cloning a GitHub repository
 - Installing dependencies from a requirements.txt file
 - Starting a Jupyter Notebook

Installing Python

Windows

- 1. Download the Python installer from python.org.
- 2. Run the installer and check "Add Python to PATH".
- 3. Click "Install Now".

macOS

1. Check if Python is already installed:

```
python --version
```

2. If not, install Python using Homebrew: "'bash /bin/bash -c "\$(curl -fsSL https://raw.githubusercontent.com/brew install python

Creating a Virtual Environment

Windows

- 1. Open Command Prompt.
- 2. Navigate to your project directory:

```
cd path\to\your\project
```

3. Create a virtual environment:

```
python -m venv myenv
```

macOS

- 1. Open Terminal.
- 2. Navigate to your project directory:

```
cd /path/to/your/project
```

3. Create a virtual environment:

```
python3 -m venv myenv
```

Activating the Virtual Environment

Windows

```
myenv\Scripts\activate
```

macOS

source myenv/bin/activate

Installing Jupyter Notebook

```
pip install notebook
```

Cloning a GitHub Repository

```
git clone https://github.com/abigailhaddad/LMGradingRubric.git
```

Installing Dependencies

Navigate to the cloned repository and install the requirements:

```
cd LMGradingRubric
pip install -r requirements.txt
```

Starting Jupyter Notebook

From the Command Line

Activate your virtual environment and start Jupyter Notebook:

```
jupyter notebook
```

Using a File Browser

- Double-clicking an .ipynb file might not open it in the virtual environment.
- To ensure it uses the correct environment, start Jupyter Notebook from the command line and open the file from the Jupyter dashboard.

Changing the Kernel (if needed)

- If your notebook is not using the kernel associated with your virtual environment:
 - Click on "Kernel" > "Change kernel" in the Jupyter Notebook menu.
 - Select the kernel that corresponds to your virtual environment.

Conclusion

- You now have a complete Python environment set up for development.
- You can use this environment to work on projects, run Jupyter Notebooks, and more.