**Brief User Guide**

**Introduction**

This document provides a comprehensive guide on setting up and using the C5i-Hackathon project hosted on GitHub. Follow these steps to ensure a smooth installation and execution process.

**Prerequisites**

Before setting up the project, ensure you have the following installed on your system:

* **Git** – for cloning the repository.
* **Python** (latest version recommended) – for running the scripts.
* **Jupyter Notebook** – for executing the .ipynb file.
* **Pip** – for managing Python packages.
* Any additional dependencies listed in the requirements.txt file.

**Setup Instructions**

**1. Clone the Repository**

Open a terminal or command prompt and run the following command:

git clone https://github.com/KSSANJAY/C5i-Hackathon.git

**2. Navigate to the Project Directory**

cd C5i-Hackathon

**3. Set Up a Virtual Environment (Recommended)**

To avoid conflicts with system-wide packages, create and activate a virtual environment:

python -m venv venv

For Windows:

venv\Scripts\activate

For macOS/Linux:

source venv/bin/activate

**4. Install Dependencies**

If a requirements.txt file is available, install dependencies with:

pip install -r requirements.txt

**5. Open the Jupyter Notebook**

If the project contains a Jupyter Notebook (.ipynb file), launch Jupyter with:

jupyter notebook

Then, open the file hackathon SAS\_009.ipynb and execute the cells sequentially.

**Usage Guidelines**

* Follow the instructions within the Jupyter Notebook to process data or run scripts.
* Modify parameters as necessary to suit your requirements.
* Review code comments for additional guidance.
* If needed, create a separate branch for experimenting with modifications before merging them into the main branch.

**Troubleshooting**

* **Module Not Found:** Run pip install <missing-module>.
* **Jupyter Notebook Not Opening:** Ensure Jupyter is installed (pip install jupyter).
* **Permission Issues:** Try running commands with administrator privileges.
* **Virtual Environment Issues:** Ensure it is activated before installing dependencies.

**Best Practices**

* Keep your repository updated by running git pull regularly.
* Use version control best practices when making changes.
* Document any modifications you make for future reference.

**Additional Resources**

For further assistance, contact the project maintainers.