Webinar Setup Instructions: ChatGPT for Advanced Data Analysis

To fully participate in the hands-on Jupyter notebooks (Exercise_1.ipynb through Exercise_5.ipynb), please complete the following setup steps before the session. You may use either a local Anaconda environment or Google Colab, depending on your preferences and system access.

Option 1: Local Setup with Anaconda (Recommended)

This option provides better performance and file control.

Step 1: Install Anaconda

- Download and install Anaconda from: https://www.anaconda.com/products/distribution

- Ensure Python 3.8 or higher is selected during installation

- Open Anaconda Navigator to confirm installation

Step 2: Create a Conda Environment

```
conda create -n chatgpt_workshop python=3.8
conda activate chatgpt_workshop
```

Step 3: Install Required Libraries

```
conda install -c conda-forge notebook
pip install openai
conda install pandas numpy matplotlib seaborn requests scikit-learn geopandas
pip install tqdm
```

Step 4: Get Your OpenAI API Key

- Sign up: https://platform.openai.com/signup

- Generate key: https://platform.openai.com/account/api-keys

- Keep your key secure and ready to paste into the notebooks

Step 5: Test the Setup

    jupyter notebook

In a new notebook cell:

```
import openai

openai.api_key = 'your-api-key'

response = openai.chat.completions.create(

    model='gpt-3.5-turbo',

    messages=[{'role': 'user', 'content': 'Hello, ChatGPT!'}],

    max_tokens=15)

print(response.choices[0].message.content.strip())
```

Option 2: Use Google Colab (No Installation Required)

Best for users on corporate or restricted devices.

Step 1: Open Google Colab

Visit: https://colab.research.google.com and sign in.

Step 2: Install Required Packages

```
!pip install openai pandas numpy matplotlib seaborn tqdm
```

Step 3: Set Your API Key

```
import openai

openai.api_key = 'your-api-key'
```

Final Notes

- Run one of the provided notebooks in advance to ensure functionality.

- Use Colab if you cannot install Anaconda.

- Reliable internet is essential.

- No troubleshooting time during the sessionplease prepare ahead.