Instructions for Running the App for the First Time

For Windows Users:

1. **Create a virtual environment:**
   Open Command Prompt and run:

   ```
   py -m venv .venv
   ```

2. **Activate the virtual environment:**

   ```
   .venv\Scripts\activate
   ```

3. **Install dependencies:**

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

4. **Run the Streamlit app:**

   ```
   streamlit run main.py
   ```

For macOS/Linux Users:

1. **Create a virtual environment:**
   Open a Terminal and run:

   ```
   python3 -m venv .venv
   ```

2. **Activate the virtual environment:**

   ```
   source .venv/bin/activate
   ```

3. **Install dependencies:**

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

4. **Run the Streamlit app:**

```
streamlit run main.py
```

Instructions for Running the App Subsequently

Once the setup is complete, the next time they want to run the app, they only need to activate the virtual environment and start the app.

For Windows Users:

1. **Activate the virtual environment:**
   Open Command Prompt and run:

```
.venv\Scripts\activate
```

2. **Run the Streamlit app:**

```
streamlit run main.py
```

For macOS/Linux Users:

1. **Activate the virtual environment:**
   Open a Terminal and run:

```
source .venv/bin/activate
```

2. **Run the Streamlit app:**

```
streamlit run main.py
```

Additional Notes

- Ensure that Python is installed on your system before you begin. Windows users may need to add Python to their PATH during the installation process.
- Always run these commands from the root directory of your project, where `main.py` and `requirements.txt` are located.
- If you encounter any issues with package installations, make sure that your pip is up to date by running `pip install --upgrade pip`.

By following these structured instructions, you can be able to run the application smoothly on either Windows or macOS/Linux systems.

Customizing Your Application

Updating API Keys:

To update the API key used by the application:

1. Navigate to the `.streamlit/secrets.toml` file.
2. Replace the existing `OPENAI_API_KEY` with your new API key as follows:

```
OPENAI_API_KEY = "your-new-api-key-here"
```

Changing the Theme:

You can customize the appearance of your app by modifying the theme settings:

1. Navigate to the `.streamlit/config.toml` file.
2. Modify the theme settings as desired. Here's an example of how to change them:

```
[theme]
base = "light"
primaryColor = "#192647"
backgroundColor = "#E9EFFC"
secondaryBackgroundColor = "#D2D9F9"
textColor = "#0C1223"
font = "sans serif"
```

Configuring AI Model Settings:

To change AI model settings or other app-specific constants:

1. Navigate to the `utils/constants.py` file.
2. Here, you can change the AI model and its parameters, among other settings. For example:

```python
model_name = 'gpt-4-turbo-2024-04-09'  # You can uncomment other models as needed
# model_name = 'gpt-3.5-turbo-0125'

model_temp = 0.0  # 0.0 is recommended
model_top_p = 0.5  # 0.5 is recommended

page_title_df = "DataSpeak | Effortless Data Exploration"
logo_image = "logo.png"

welcome_header_df = 'Welcome to DataSpeak!'
introduction_text_df = 'Explore your data using natural language. No coding required!'
features_header_df = 'Key Features'
features_text_df = """
- **Chat with Your Data**: Ask natural language questions and get insights directly from your CSV files.
- **Smart Queries**: Leverage AI to analyze your data without any manual coding.
- **Visualize on the Fly**: Generate dynamic plots and graphs from your queries instantly.
- **Upload and Go**: Simply upload your data and start exploring right away.
"""

file_uploader_msg_df = "Upload a CSV file containing your data."
query_box_text_df = "What would you like to know about your data? Ask me anything!"
```

Important Notes:

- Ensure to save the changes after editing any of the files.
- Restart the application for the changes to take effect.