Unlocking Productivity and Efficiency with ChatGPT in R

Dr Yu Yong Poh
https://www.richieyyptutorialpage.com/
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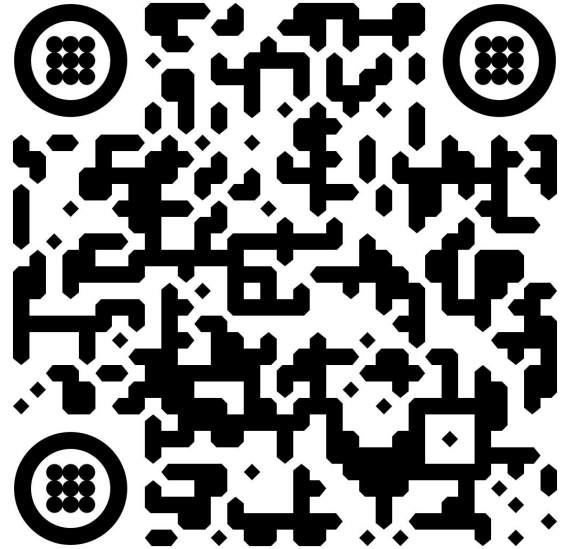
Please consult with appropriate professionals and organizations for specific advice and recommendations related to the topics discussed in this presentation.

Ice Breaking:

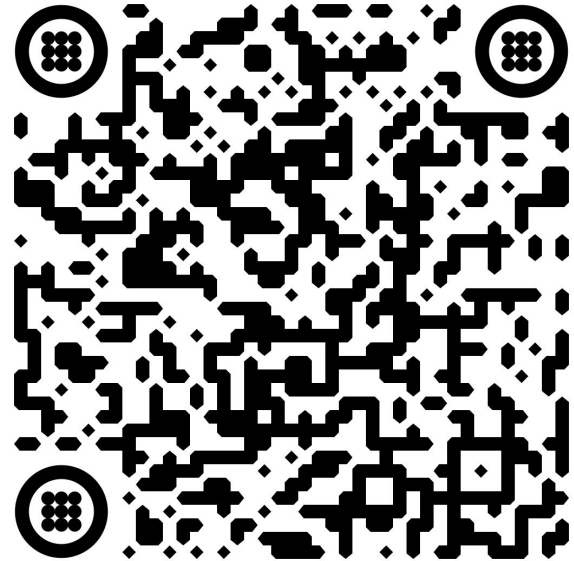**Scan this QR code to chat with Just for FUN ChatBot and answer the questionnaire.**

★ No P n C data is collected. Just For Fun.

Results:

Let us see some
interesting findings 🤩

Click me: **Dashboard**

What will be covered?

- Overview of ChatGPT
- Benefits of Using ChatGPT in R
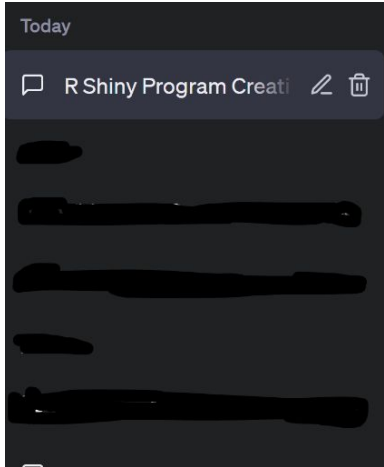- ChatGPT Tools for R
- Demo
- Q&A

Do I need to code?

A: Overview of ChatGPT

[ChatGPT Chatroom](#) (Free / subscription)
[OpenAI API](#) (For developers - with charge/fee)

ChatGPT Chatroom

💬 R Shiny Program Creati ✏️ 🗑️

```
# Run the application
shinyApp(ui = ui, server = server)
```

Let's go through the code step by step:

1. We start by loading the required packages: `shiny`, `googlesheets4`, `dplyr`, and `ggplot2`.
2. We set up Google authentication using the `gs4_auth()` function. This allows us to access the CSV file on Google Drive.
3. We define the UI using the `fluidPage` function. The UI includes a title panel, a sidebar

OpenAI API

API keys

Your secret API keys are listed below. Please note that we do not display your secret API keys again after you generate them.

Do not share your API key with others, or expose it in the browser or other client-side code. In order to protect the security of your account, OpenAI may also automatically rotate any API key that we've found has leaked publicly.

NAME	KEY	CREATED	LAST USED ⓘ		
				✏	🗑
For R Shiny			May 6, 2023	✏	🗑

+ Create new secret key

B: Benefits of Using ChatGPT in R

- Enhanced Data Communication
- Automated Documentation
- Accelerated Data Exploration
- Effortless Report Generation

C: ChatGPT [tools](#) for R

1) TheOpenAIR

```
> chat("Write a short introductory text describing R Studio in 150 words",
+
+      model="gpt-3.5-turbo",
+
+      temperature=0.8
+      )
R Studio is a powerful and user-friendly integrated development environment
(IDE) for the R programming language. It provides a comprehensive and
versatile platform for data analysis and statistical computing. With its
intuitive interface and extensive features, R Studio is widely used by data
scientists, statisticians, and researchers.

One of the key advantages of R Studio is its seamless integration with R,
allowing users to efficiently write, test, and debug R code. It offers a
range of useful tools, such as syntax highlighting, code completion, and
debugging capabilities, which enhance productivity and streamline the
development process.
```

C: ChatGPT [tools](#) for R

2) RTutor

| RTutor | Home | Data | Report | EDA | Ask | About |

Reset

Data

mpg (examples) ▾

File Upload

Browse...   No file s

Example requests:

... ▾

Upload a file or use demo data. Then just ask questions or request analyses in English or other languages. For general questions, briefly explain the data first, especially the relevant columns. See examples above. If unsuccessful, try again with the same request or ask differently. Code works correctly some of the times. To use voice input, click Settings.

Submit   Settings   ☐ Python

RTutor.ai 0.97

Chat with your data in your languages.

Major upgrade!!! Oct 23, 2023: With v0.97, GPT-4 becomes the default. Makes ggplot2 a preferred method for plotting. Sequential data manipulation is enabled.

Also try Chatlize.ai, a general platform for analyzing data through chats. Multiple files with different formats. Python support.

Instructions:

- Analyzing your data for free using AI.
- Start small. First, try simple requests such as distributions, basic plots, or simple models. Then customize it or add variab Gradually add complexity.
- The default model is now GPT-4, which is slower and costs 20 times more, but more accurate. With that, previous questi and code chunks become the context for your new request. For example, you can simply say "Change background color

C: ChatGPT [tools](#) for R

3) askgpt

C: ChatGPT [tools](#) for R

4) gptstudio

🤖

Greetings and welcome! I'm here to assist you on your R journey, no matter where you're starting from.

In this chat you can:

- Send me a prompt (➤ or Enter key)
- Clear the current chat history (◈)
- Change the settings (⚙)

Type anything to start our conversation.

C: ChatGPT [tools](#) for R

5) chatgpt

```
*** ChatGPT input:

Write a simple R shiny code

Sure, here's an example of a simple R Shiny code:

```R
# Load the required libraries
library(shiny)

# Define the user interface
ui <- fluidPage(
  titlePanel("Simple R Shiny App"),
  sidebarLayout(
    sidebarPanel(
      # Add input widget
      textInput("name", "Enter your name", ""),
      actionButton("submit", "Submit")
    ),
    mainPanel(
      # Add output widget
```

Using Own Codes

Demo
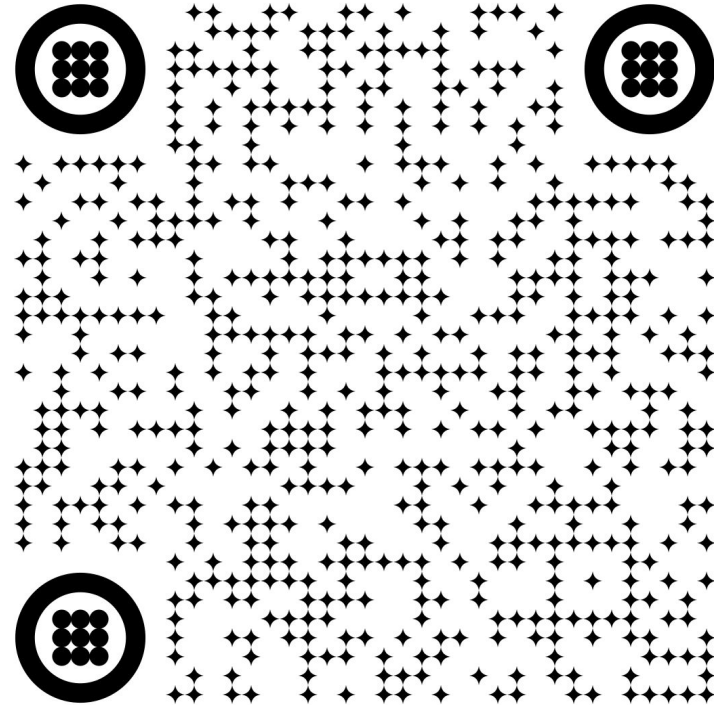
Example: Sentiment Analysis

Let Us Chat

User: i love malaysia

ChatGPT: Sentiment: Positive ; Score: +0.9

USER PROMPT

[Enter your message:]

⟳ Send

Q A

THANK YOU...

You Rock!