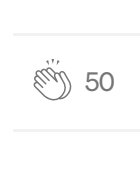


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ChatGPT and Plugins: Citizen Data Scientists 2.0 with Code interpreter and visualiser

Democratizing Data Analytics: Empowering Citizen Data Scientists with ChatGPT and Plugins



Christophe AttenFollow
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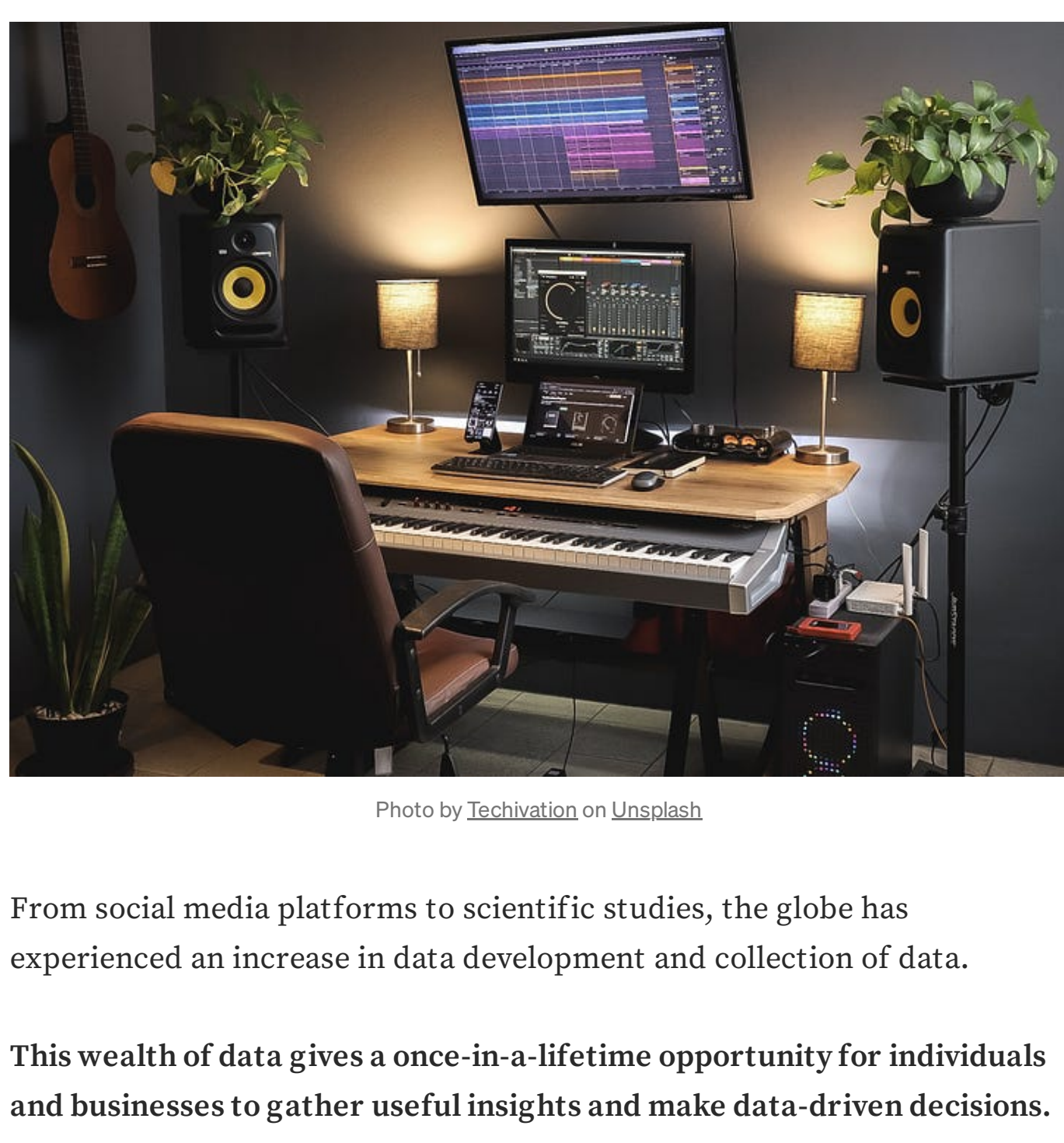


Photo by Techsauce on Unsplash

From social media platforms to scientific studies, the globe has experienced an increase in data development and collection of data.

This wealth of data gives a once-in-a-lifetime opportunity for individuals and businesses to gather useful insights and make data-driven decisions.

However, even the most seasoned data analysts might be overwhelmed by the sheer volume and complexity of data.

This is where ChatGPT and plugins come in, allowing citizen data scientists to evaluate data using natural language and reveal insights that would otherwise be concealed.

In this article, I will review the following points and bring you closer to how ChatGPT will stimulate the concept of citizen data scientists.

- What is ChatGPT?
- What are Plugins?
- How ChatGPT and Plugins are Empowering Citizen Data Scientists?
- Examples of ChatGPT and Plugin Applications

If you want to know how to evolve from a domain expert to a citizen data scientist:

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What is ChatGPT and What are Plugins?

ChatGPT is a large language model developed by OpenAI, based on the GPT-3.5 architecture and not also on GPT-4.

It is trained on diverse texts, including books, articles, and websites, allowing it to generate human-like responses to text-based inputs. This makes it an incredibly versatile tool for a wide range of applications, including natural language processing, text generation, and even chatbot development.

Fine-tuning GPT-3 To Assist: A Step-by-Step Guide
Learn how to train your own GPT-3 to create various assistants: Crypto, Finance, Q&A, Legal and more using Python and...
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Plugins are add-ons or extensions that can be integrated with existing software or applications to add new functionality or features. In the case of ChatGPT, plugins are designed to help people using the power of ChatGPT by extending it with other functionalities such as online searches, coding, or analysing and interpreting data more effectively. These plugins can be used to perform a wide range of tasks such as data visualization.

ChatGPT Plugins: Code Interpreter, Visualizer, and More
Unlocking New Possibilities: Enhancing ChatGPT with Powerful and Versatile Add-Ons
medium.com

Together, these tools are shaping the future of data-driven decision-making and artificial intelligence, empowering individuals and organizations to harness the full potential of their data and create innovative solutions to today's and tomorrow's challenges.

How ChatGPT and Plugins are Empowering Citizen Data Scientists?

Citizen data scientists are individuals who do not necessarily have formal training in data analysis or computer science but are able to use data to make informed decisions.

ChatGPT and plugins are making it easier for these individuals to analyze and interpret data by enabling them to use natural language. This means they can ask questions and get answers in plain English, without knowing complex programming languages or statistical techniques. ChatGPT will provide the necessary piece of code if needed.

How can I program in python a scatterplot? Generate me the code in one block

ChatGPT Here's a simple example of how to create a scatter plot using Python's Matplotlib library:

```
python
import matplotlib.pyplot as plt
import numpy as np

# Create some sample data
x = np.random.rand(10)
y = np.random.rand(10)

# Create a scatter plot
plt.scatter(x, y)

# Add labels and titles
plt.xlabel('X-axis')
plt.ylabel('Y-axis')
plt.title('Scatter Plot')

# Display the plot
plt.show()
```

In this example, we first import the `matplotlib.pyplot` library and the `numpy` library. We then create two arrays of random data using `np.random.rand()` to create the scatter plot with `x` and `y` as the input data. We then add labels to the x and y axes using `plt.xlabel()` and `plt.ylabel()`, respectively. Finally, we add a title to the plot using `plt.title()`. Lastly, we call the `plt.show()` function to display the plot.

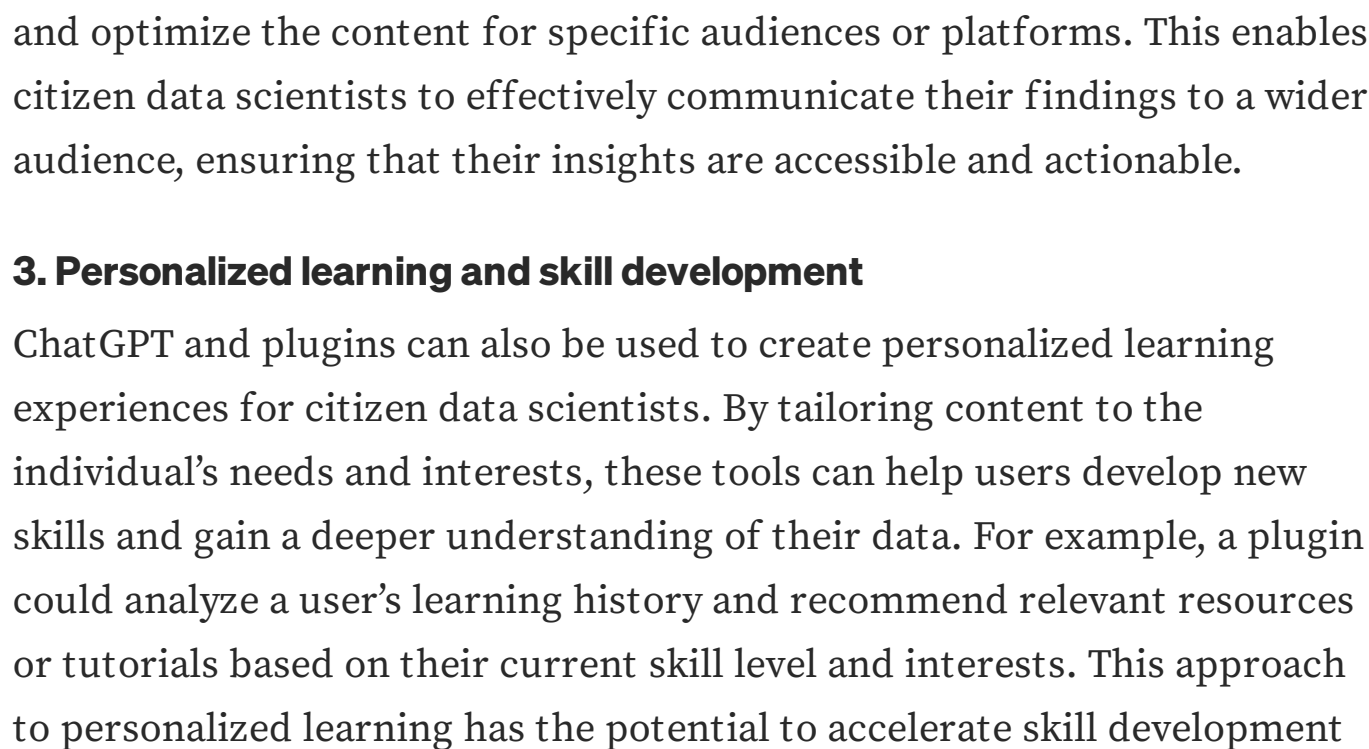
In addition, citizen scientists can use ChatGPT as a personal expert who is always available to help them turn their idea into reality.

Examples of ChatGPT and Plugin Applications

1. Data visualization and analysis using ChatGPT and Plugins

One of the primary applications of ChatGPT and plugins is in the realm of data visualization and analysis. By combining the power of natural language processing with advanced data analytics tools, citizen data scientists can quickly generate visual representations of their data and extract meaningful insights.

For example, a user can simply ask ChatGPT to create a bar chart comparing sales across different product categories, and the tool will generate the appropriate visualization, making it easier for non-experts to understand complex data patterns.



Another application of ChatGPT and plugins is in the area of content creation and summarization. ChatGPT can draft articles, blog posts, or social media updates based on user input, while plugins can help refine and optimize the content for specific audiences or platforms. This enables citizen data scientists to effectively communicate their findings to a wider audience, ensuring that their insights are accessible and actionable.

3. Personalized learning and skill development

ChatGPT and plugins can also be used to create personalized learning experiences for citizen data scientists. By tailoring content to the individual's needs and interests, these tools can help users develop new skills and gain a deeper understanding of their data. For example, a plugin could analyze a user's learning history and recommend relevant resources or tutorials based on their current skill level and interests. This approach to personalized learning has the potential to accelerate skill development and empower more people to become proficient in data analytics.

4. Collaboration and knowledge sharing

Finally, ChatGPT and plugins can facilitate collaboration and sharing knowledge among citizen data scientists. By enabling users to ask questions and get answers in plain English, these tools can help break down barriers between different teams and departments, promoting a more collaborative and data-driven culture within organizations. Additionally, ChatGPT can be used to create detailed documentation and share insights with other stakeholders, ensuring that valuable knowledge is not lost and can be easily accessed by all team members.

Conclusion

ChatGPT and plugins are changing the way we approach data analytics and science, making it easier for citizen data scientists to unlock insights from their data. As the technology continues to evolve, we can expect to see even more innovative applications and use cases emerge, enabling individuals and organizations to harness the full potential of their data and create innovative solutions to today's and tomorrow's challenges.

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