

# I TRAINED GPT4 ON MY OBSIDIAN VAULT TO CREATE A PERSONAL KNOWLEDGE MANAGEMENT MONSTER



**It analyzed over 700 of my LinkedIn posts.**

**It ran over 250,000 calculations.**

**It cost me a total of \$1.29.**

**Here's how I did it...**



# BACKGROUND

- I've been using Obsidian to create a powerful searchable archive of all 700+ of my LinkedIn posts, including full text, metadata, image, video and carousel files

Sad.



Link to background post: <https://bit.ly/HowIUseObsidian>

- I then started adding other content creators' posts to my vault to create a permanent version and take advantage of Obsidian's powerful search capabilities
- Link to my video demonstrating how to do that:

<https://bit.ly/OthersContentObsidian>



Brian Julius

# ADDING AI TO OBSIDIAN

- While Obsidian has been invaluable in safely archiving and protecting my content and making it easily searchable, I wanted to see if AI could:
  - extract insights about relationships between posts?
  - further enhance Obsidian's search capabilities?
  - provide additional value?

## DID IT WORK?

FAR better than I ever could have imagined!



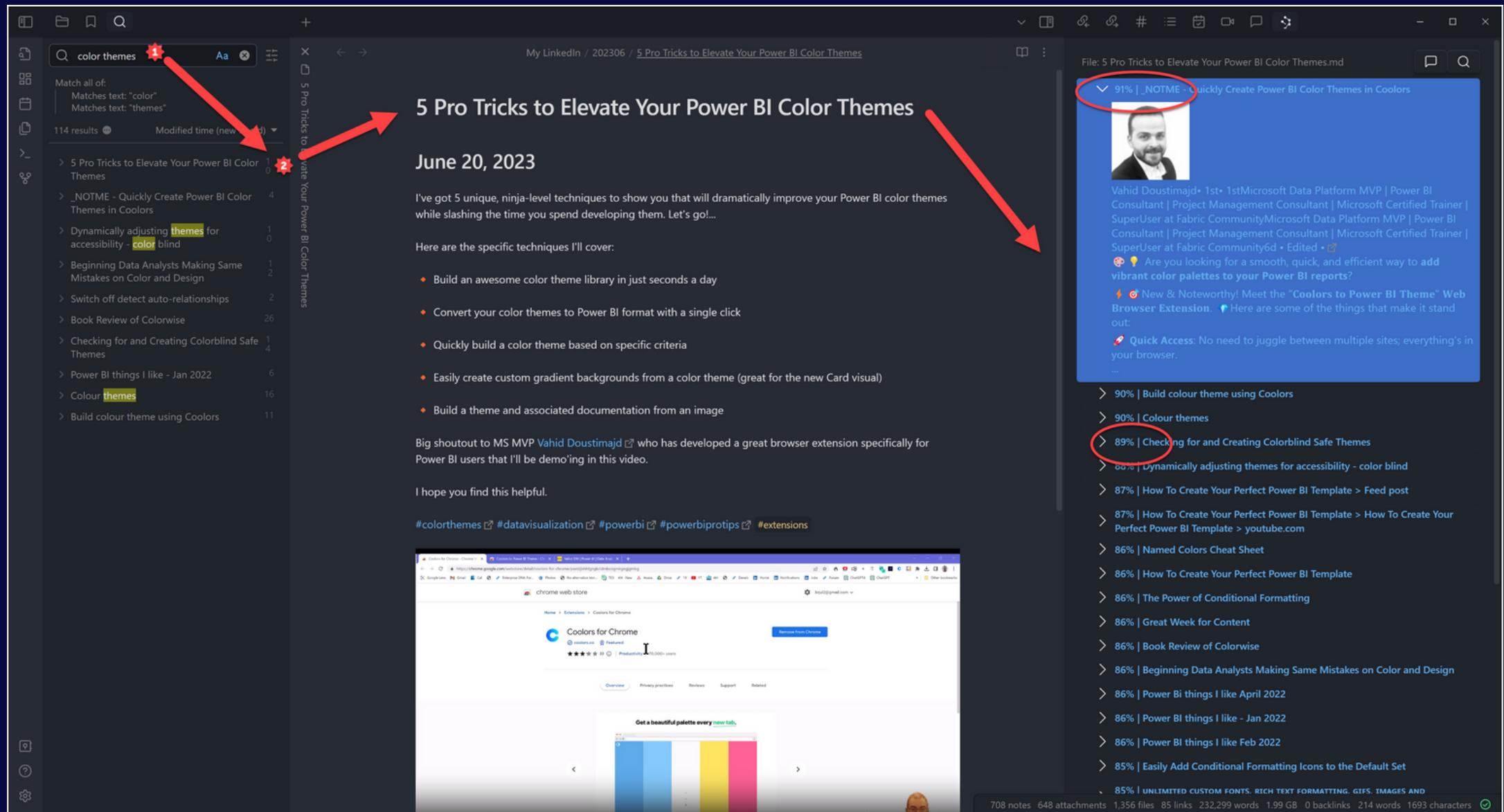
## IS IT SAFE FOR SENSITIVE DATA?

- Yes and no. If you include sensitive data to be analyzed you can't yet keep OpenAI from accessing it
- However, you can exclude those files from the AI analysis
- Works well if most of your data is public, but not all



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# DEMO OF CAPABILITIES



- **Left Panel** - perform complex Boolean searches on all of your data, and see highlighted results in context
- **Center Panel** - see all info related to post, including playable video or viewable carousels
- **Right Panel** - AI-generated list of related posts by percentage relevance score
  - Can expand to view particular result with more context
  - Results include my content and others' content (as indicated by the "\_NOTME" tag I've designated)
  - Can continue to drill down and back



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# CHAT WITH YOUR DATA

- You can now query your data with text prompts, just as you would online with chatGPT4 but it will now use your local vault as the source subject to exclusions
- You can also save your chat results and have those incorporated in future searches relevancy scoring

The screenshot shows a chat interface with a dark theme. The top bar is labeled "DAX VIRTUAL TABLES". In the message input field, the user has typed: "please provide a brief summary of all my notes related to dax virtual tables and any links those notes may contain". Below this, a blue-highlighted area contains a summary of five notes:

Based on your notes, you have been exploring various aspects of DAX virtual tables and their applications in Power BI.

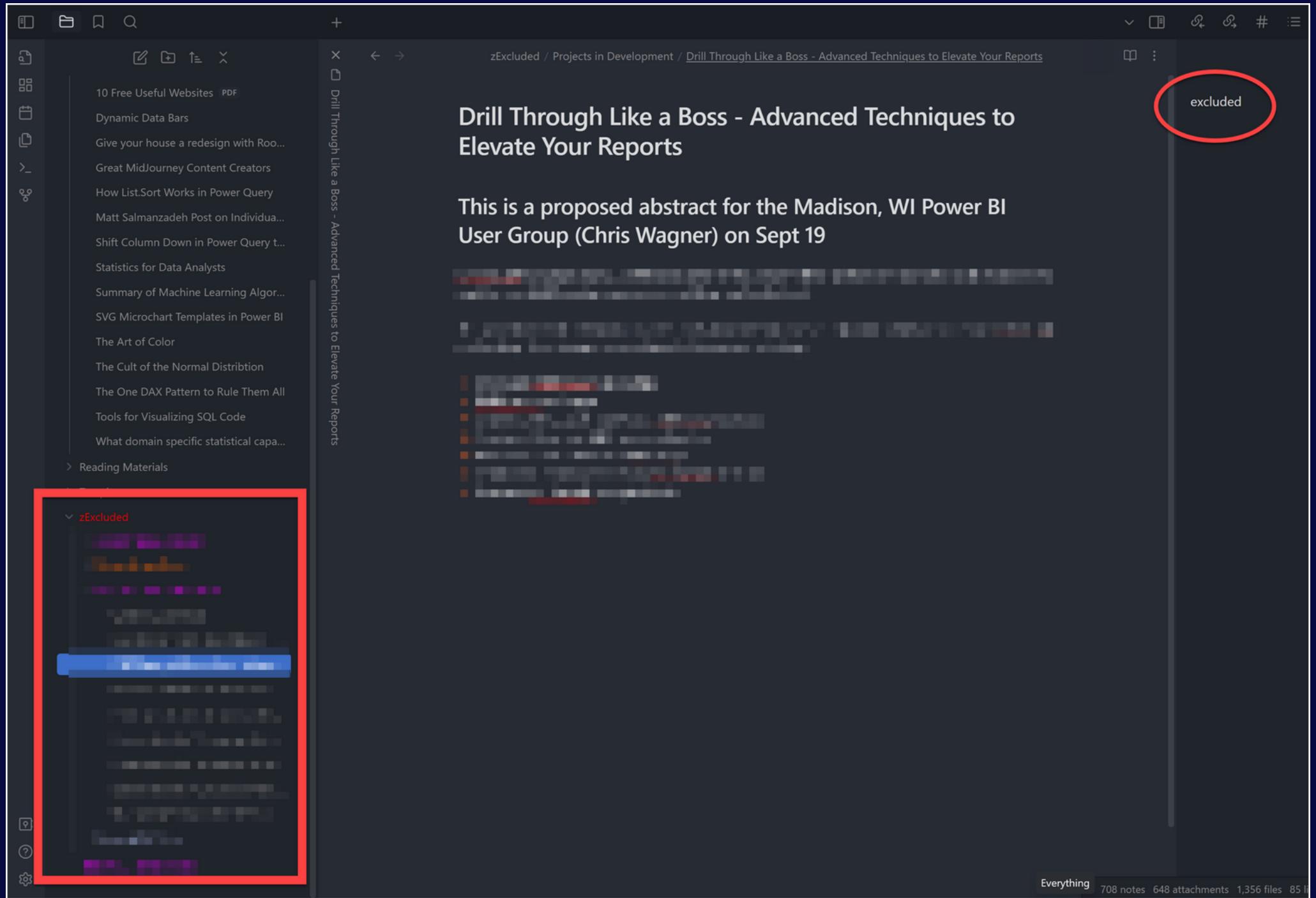
1. In your first note, you discussed the importance of learning to move smoothly between complex DAX queries, scalar measures, and visuals as a key step in acquiring DAX superpowers. You provided a link to a LinkedIn post that further explains this concept: [LinkedIn Post](#)
2. Your second note focused on building DAX evaluation content in card visuals using virtual tables. You explained that cards are the only visual that have no inherent evaluation context, and thus, sometimes return unexpected results. You suggested building the evaluation context using virtual tables within measures and then extracting the proper values from those virtual tables.
3. In the third note, you discussed the importance of improving the readability of DAX by using universal visual conventions. You highlighted the confusion that can arise when referencing virtual table columns and suggested using a naming convention that starts with "@" to distinguish them from measures. The link to this post is: [LinkedIn Post](#)
4. Your fourth note emphasized the importance of mastering table functions in DAX. You suggested that focusing on the right 1/3 of table functions will provide over 90% of the benefits. The link to this post is: [LinkedIn Post](#)
5. In your fifth note, you discussed joining tables in DAX and explained that how you apply these functions depends in large part on whether or not the two tables you are trying to join have an existing physical relationship.

At the bottom of the interface, there is a footer with the text: "Try 'Based on my notes' or 'Summarize [[this note]]' or 'Important tasks in /folder/'".



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# EXCLUDING SENSITIVE CONTENT



- Data in folders defined as excluded, will not be sent to Open AI
- This data still can be searched and accessed locally, but the right-hand AI relevancy results panel will just show "Excluded" for these files



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# SETTING UP YOUR API KEY

- Login to your Open AI account and click on profile
- Select "View API Keys"
- If you don't already have an API Key set up, click "Create a New Secret Key"
- Be sure to copy this to a secure location, since once you leave this screen you will not be able to access the key value again (but you can create a new one if necessary)

## 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 disable any API key that we've found has leaked publicly.

NAME	KEY	CREATED	LAST USED ⓘ	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
+ Create new secret key				

### Default organization

If you belong to multiple organizations, this setting controls which organization is used by default when making requests with the API keys above.

Personal ▾

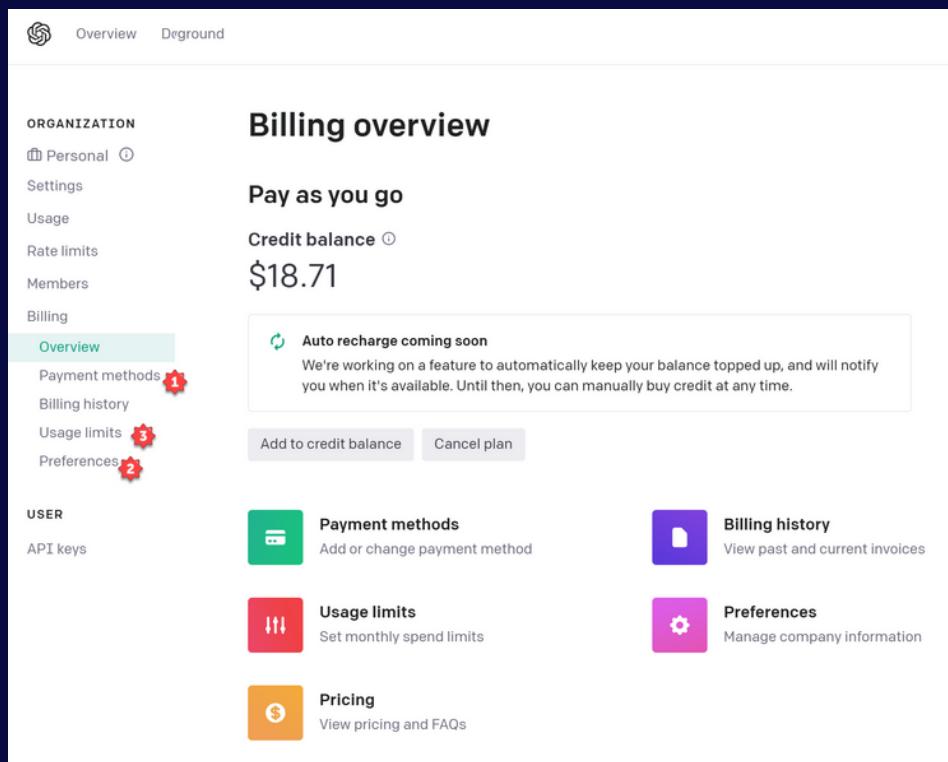
Note: You can also specify which organization to use for each API request. See [Authentication](#) to learn more.



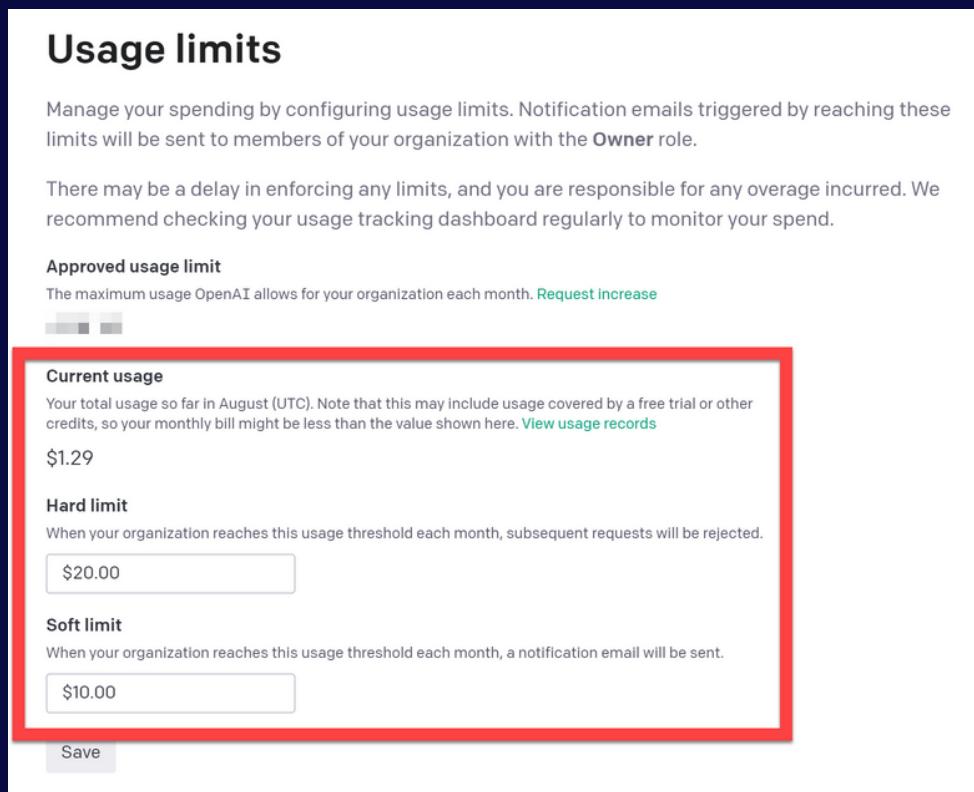
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# FUNDING YOUR API KEY AND SETTING USAGE LIMITS

- Go to "Billing" and enter your payment information and preferences



- Now go to "Usage Limits" and set the upper ceiling you're willing to spend per month and the amount at which you want to receive email that you are approaching the limits

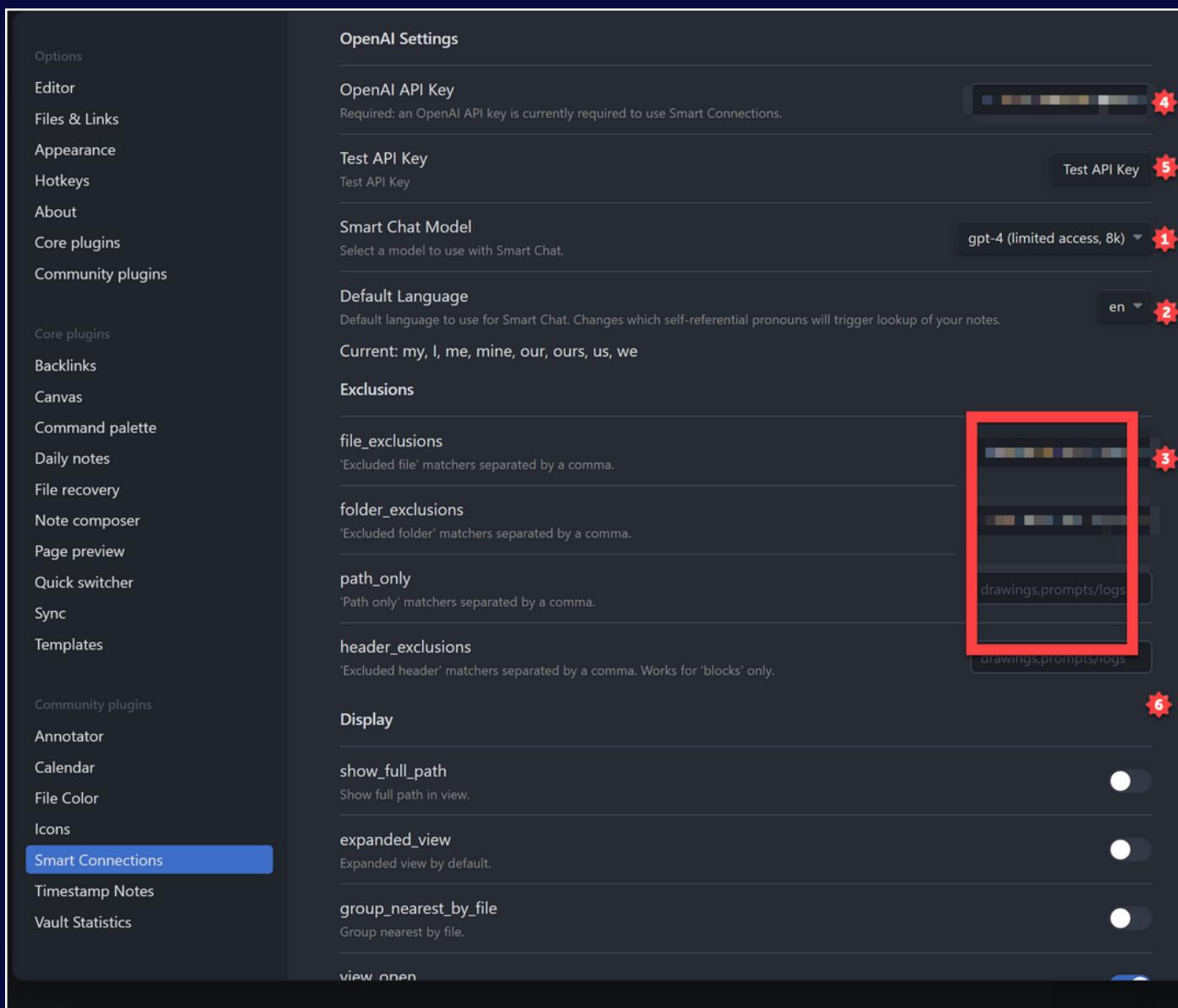


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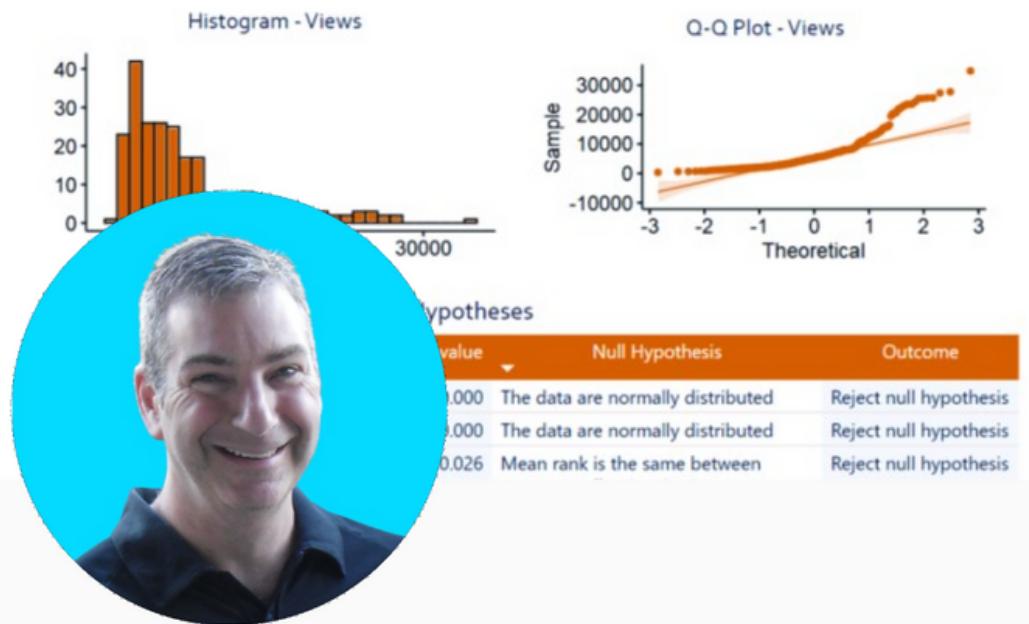
# SETTING UP OBSIDIAN PLUG-IN

- Go to Obsidian setup options and download Smart Connections community plug-in
- Select Smart Connections setup options
- Configure the options below in the order specified, making sure your API key passes the test
- Finally, click the option to force a refresh, and you should be ready to go

Note that I have a relatively large vault of over 700 records, and the total API usage cost was \$1.29. Even with adding additional data throughout the month, I expect my total costs will not exceed \$2 per month.



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“

**WITHOUT DATA, YOU'RE JUST ANOTHER PERSON WITH AN OPINION**

W. EDWARDS DEMING

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- Data Analysis and Data Science
- Power BI, R and Power Query
- AI
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