

Beyond Rank Tracking

Analyzing Brand Perceptions Through Language Model Association Networks



STEP 1: Define your brand.

You can also pick a product, service or a person as well.





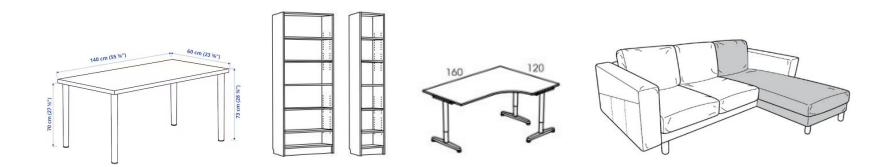






STEP 2: Define primary entities.

Think "tracked keywords", but it can be any entity associated with your brand.





STEP 3: Brand \rightarrow **Entities**

Prompt AI for entity associations with your brand.

List ten things that you associate with a brand called [BRAND] in [LOCATION].



STEP 3: Brand \rightarrow **Entities**

Prompt AI for entity associations with your brand.

Respond in json enumerated list. Association only, no explanations or meta information.

List ten things that you associate with a brand called IKEA in Australia.



STEP 4: Entity \rightarrow **Brands**

Prompt AI for brands associated with your entities.

List ten brands in [LOCATION] that you associate with [ENTITY].



STEP 4: Entity \rightarrow **Brands**

Prompt AI for brands associated with your entities.

Respond in json enumerated list. Brand name only, no explanations or meta information.

List ten brands in Australia that you associate with two seater sofas.



Bidirectional Model Probing

Run a daily probe for brand and all its associated entities. Store results in database, txt, json or csv.

Brand → **Entities**



Bidirectional Model Probing

Run a daily probe for brand and all its associated entities. Store results in database, txt, json or csv.

Brand → **Entities**

Entity \rightarrow **Brands**



```
"1": "Flat-pack furniture",
"2": "Meatballs",
"3": "Showrooms",
"4": "Swedish design",
"5": "Home decor",
"6": "Self-assembly",
"7": "Affordable prices",
"8": "Blue and yellow logo",
"9": "Warehouse layout",
"10": "Catalogues"
```



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"1": "Flat-pack furniture",
                                   "1": "Flat-pack furniture",
"2": "Meatballs",
                                   "2": "Meatballs",
"3": "Showrooms",
                                   "3": "Showrooms",
                                   "4": "Affordable prices",
"4": "Swedish design",
                                   "5": "Do-it-yourself assembly",
"5": "Home decor".
"6": "Self-assembly",
                                   "6": "Home decor",
"7": "Affordable prices",
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"8": "Blue and yellow logo",
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"9": "Warehouse layout",
                                   "9": "Self-service warehouse",
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                                                                         "1": "Flat-pack furniture",
"2": "Meatballs",
                                   "2": "Meatballs",
                                                                         "2": "Swedish meatballs",
"3": "Showrooms",
                                   "3": "Showrooms",
                                                                         "3": "Affordable home goods",
                                   "4": "Affordable prices",
"4": "Swedish design",
                                                                         "4": "Showroom layout",
"5": "Home decor",
                                   "5": "Do-it-yourself assembly",
                                                                         "5": "Assembly instructions",
"6": "Self-assembly",
                                                                         "6": "Yellow and blue colors",
                                   "6": "Home decor",
                                                                         "7": "Self-service warehouse",
"7": "Affordable prices",
                                   "7": "Swedish design",
"8": "Blue and yellow logo",
                                   "8": "Kitchenware",
                                                                         "8": "Modern design",
"9": "Warehouse layout",
                                   "9": "Self-service warehouse",
                                                                         "9": "Scandinavian names",
"10": "Catalogues"
                                   "10": "Blue and yellow"
                                                                         "10": "Sustainable products"
```



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                                                                         "1": "Flat-pack furniture",
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                                                                         "2": "Swedish meatballs",
                                   "2": "Meatballs",
"3": "Showrooms",
                                   "3": "Showrooms",
                                                                         "3": "Affordable home goods",
"4": "Swedish design",
                                   "4": "Affordable prices",
                                                                         "4": "Showroom layout",
"5": "Home decor", -
                                   "5": "Do-it-yourself assembly",
                                                                         "5": "Assembly instructions",
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                                                                         "6": "Yellow and blue colors",
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                                   "9": "Self-service warehouse
                                                                         "9": "Scandinavian names",
                                   "10": "Blue and yellow"
"10": "Catalogues"
                                                                         "10": "Sustainable products"
                                   "X": "Self-assembly",
                                                                         "X": "Showrooms",
                                   "X": "Warehouse layout",
                                                                         "X": "Affordable prices",...
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```



Output Variability

Observed daily rank changes are primarily the result of temperature and random sampling.

Less frequently, existing models are fine-tuned and new models are released.

Finally grounded results have the capacity to significantly influence model's output.

- 1. Stochastic sampling.
- 2. Fine-Tuning.
- 3. Model Releases.
- 4. Grounding.



Data Processing

Rank tracking graphs and data can get very messy over time so it's important to apply a level of data processing to keep things tidy.

- Auto-Normalization (IKEA, Ikea, ikea, ikea.com, 2.IKEA)
- Manual Canonicalization (meatballs → swedish meatballs)
- Weekly rank aggregation
- Cross-model data merging



- 1. Flat-pack furniture
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- 10. Catalogues
- 11. Do-it-yourself assembly
- 12. Self-service warehouse
- 13. Blue and yellow
- 14. Swedish meatballs
- 15. Affordable home goods
- 16. Showroom layout
- 17. Assembly instructions
- 18. Yellow and blue colors
- 19. Modern design
- 20. Scandinavian names
- 21. Sustainable products
- 22. Kitchenware

Primary Dimensions:

- Frequency
- Rank

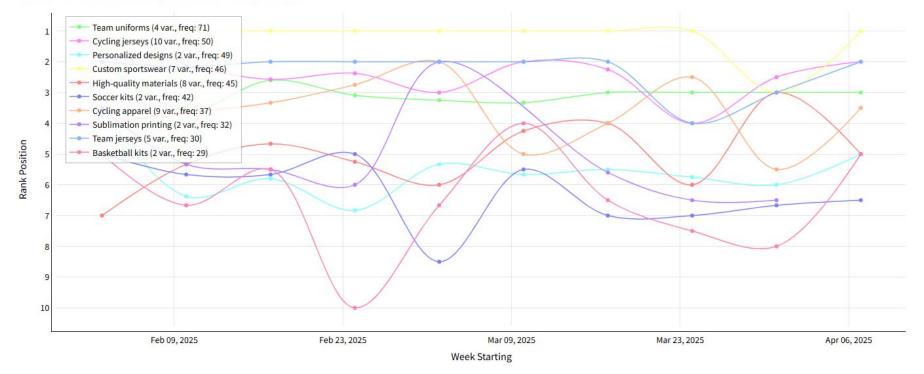


Real-World Example

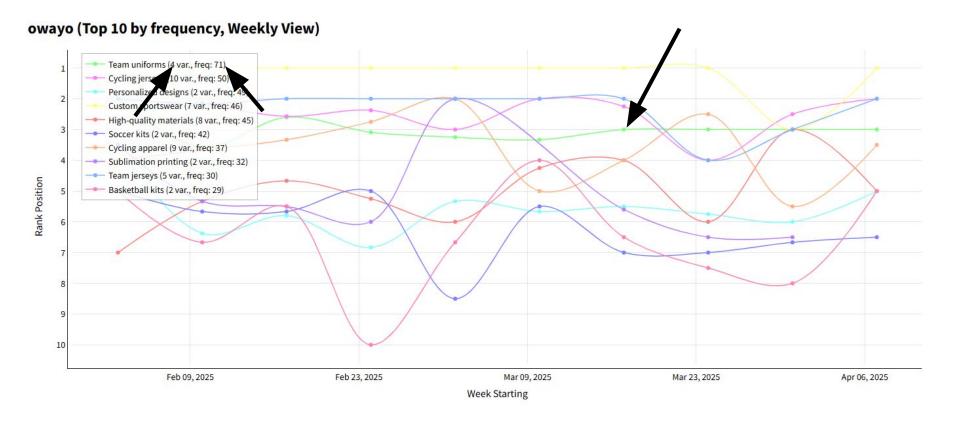
Owayo is a brand which does custom cycling jerseys. They're interested in being in model's internal memory.



owayo (Top 10 by frequency, Weekly View)





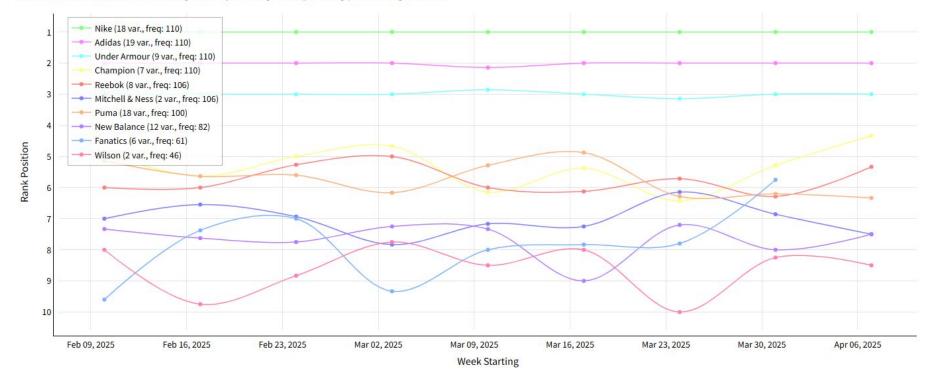


INSIGHT:

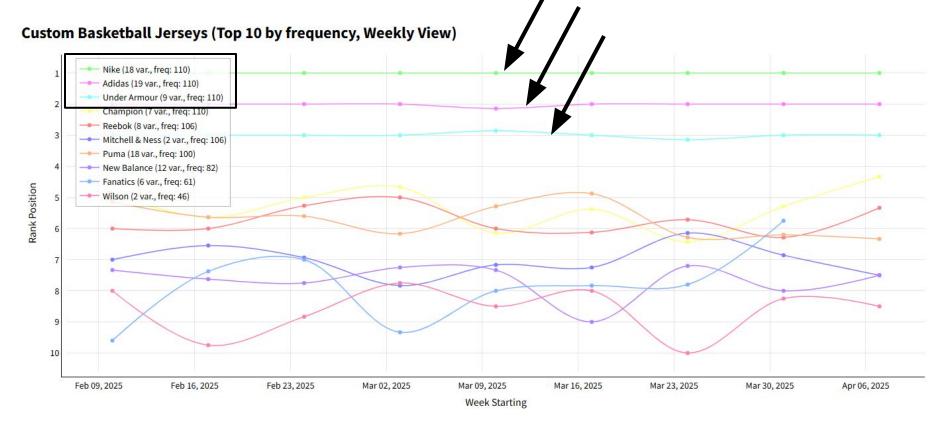
Frequency as an expression of strength of brand to entity association in the model.



Custom Basketball Jerseys (Top 10 by frequency, Weekly View)







INSIGHT:

Volatility level as an inverse expression of brand authority. High oscillations suggest lower model confidence.



Top 20 Entities

Entities Als associate with your brand.

	Entity	Frequency	Avg Position	Weighted Score
1	Team uniforms	50	2.96	0.704
2	Custom sportswear	41	1.44	0.702
3	Cycling apparel	41	3.39	0.542
4	Cycling jerseys	35	2.69	0.512
5	High-quality materials	45	5.49	0.406
6	Custom sports apparel	19	1.00	0.342
7	Team jerseys	20	2.30	0.308
8	1. Custom team apparel	17	1.00	0.306
9	Personalized designs	37	6.00	0.296
10	Custom sports jerseys	15	1.00	0.270

Top 20 Brands

Brands Als associate with your tracked phrases.

	Entity	Frequency	Avg Position	Weighted Score	
1	Nike	790	1.56	0.852	
2	Adidas	791	2.46	0.770	
3	Under Armour	713	3.74	0.585	
4	Puma	493	4.59	0.355	
5	Champion	494	5.74	0.288	
6	Reebok	485	5.66	0.288	
7	New Balance	380	6.68	0.179	
8	Primal Wear	156	3.95	0.124	
9	Fanatics	266	6.95	0.117	
10	Mitchell & Ness	309	7.63	0.111	



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$$ext{normalized_freq} = rac{f}{f_{ ext{max}}}$$

$$ext{normalized_pos} = 1 - rac{p}{p_{ ext{max}}}$$

$$ext{weighted_score} = \left(rac{f}{f_{ ext{max}}}
ight) \cdot \left(1 - rac{p}{p_{ ext{max}}}
ight)$$

f = frequency of the entity

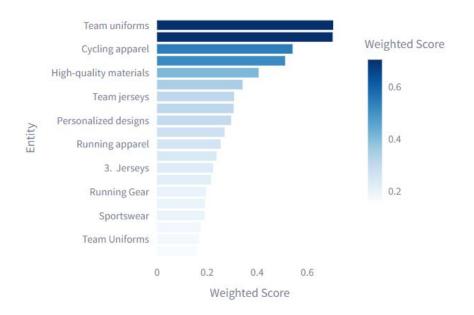
p = average position of the entity

 $f_{
m max}$ = maximum frequency across all entities

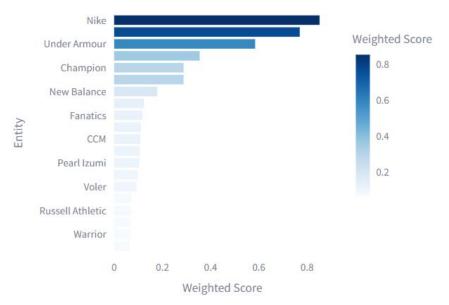
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Top Associations



Top Associations





Quick Recap

Before we dive deeper.





Define Target Brands: Identify the brand(s) to be analyzed. This could be a single brand, a set of competitors, or a broader category of brands.

- 2. **Define Tracked Phrases (Entities):** Select relevant entities, keywords, concepts, or phrases related to the brand's industry, products, or services.
- 3. **Brand-to-Entity (B→E):** "List ten things that you associate with a brand called [Brand Name]." This reveals the concepts and entities most strongly linked to the brand.
- 4. **Entity-to-Brand (E→B):** "List ten brands that you associate with [Entity/Keyword]." This identifies competitors and reveals the brands most strongly associated with a specific concept.
- 5. **Entity Extraction:** Extract individual entities from the LLM responses. This involves cleaning and standardizing the text.
- 6. **Canonicalization:** Group variant forms of the same entity (e.g., "OWAYO", "owayo", "Owayo") under a single canonical representation.
- 7. **Ranking:** Assign ranks to the entities based on their position in the LLM's response. Typically, the first item in a list is considered rank 1, the second rank 2, and so on.



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Al Rank Login

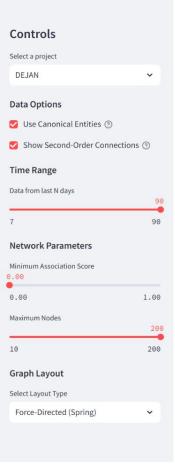
You can do all that via AI Rank

dejan.ai

Taking in to the next step.



```
PS C:\projects\airank\network> python export brand story.py
[2025-04-10 12:41:04] Starting Brand Story Export for: 'Owayo'
  Database: data.db
  Input Graph: full network with pagerank.graphml
  Use Canonical: True
  Output JSON: brand story owayo.json
Database connection successful: data.db
Using cleaned brand name for analysis: 'Owayo'
Loading graph 'full network with pagerank.graphml' for PageRank...
Graph loaded (33.33s). Nodes: 656415, Edges: 1230160
Fetching overall metrics for 'Owayo'...
  Total Mentions: 688
  PageRank: 1.6238244869969221e-06
Fetching direct associations (B->E)...
  Found 293 direct associations meeting min frequency.
Fetching contextual appearances (E->B)...
  Found 17 contexts where brand appears meeting min frequency.
Calculating top associated concepts...
  Found 15 top associated concepts.
Identifying top competitors in shared contexts...
  Found 3260 potential competitors meeting min frequency.
Exporting brand story to: brand story owayo.json...
JSON export successful.
[2025-04-10 12:41:56] Database connection closed.
[2025-04-10 12:41:56] Brand story export process finished. Total time: 52.29 seconds.
PS C:\projects\airank\network>
```



This visualization shows the interconnected network of brands and entities, revealing relationships that go beyond simple rank tracking.

Association Network Brand Visibility Brand Authority Your Brand Tracking

Network Statistics

Brands Tracked Phrases Result Entities Result Entities 1623

Network Insights

Central Nodes

These are the most connected entities in the network:

- Australian SEO Agency (Centrality: 0.160)
- Australian SEO Consultant (Centrality: 0.135)
- SEO Consultant (Centrality: 0.133)
- dan petrovic (Centrality: 0.128)
- Dan Petrovic (Centrality: 0.124)

Brand Similarities

Brands that share similar entity associations:

- DEJAN SEO and SEO Company Australia share 3 entities (Similarity: 0.01)
- DEJAN SEO and Boostability share 3 entities (Similarity: 0.01)
- DEJAN SEO and Go Click On share 3 entities (Similarity: 0.01)
- DEJAN SEO and SOCIALFUEL Media share 3 entities (Similarity: 0.01)

Bridge Nodes

These entities connect different parts of the network:

- Digital Nomads HQ (Betweenness: 0.011)
- Clearwater Agency (Betweenness: 0.011)
- Digital Eagles (Betweenness: 0.011)
- Loopex Digital (Betweenness: 0.011)
- Online Marketing Gurus (Betweenness: 0.011)

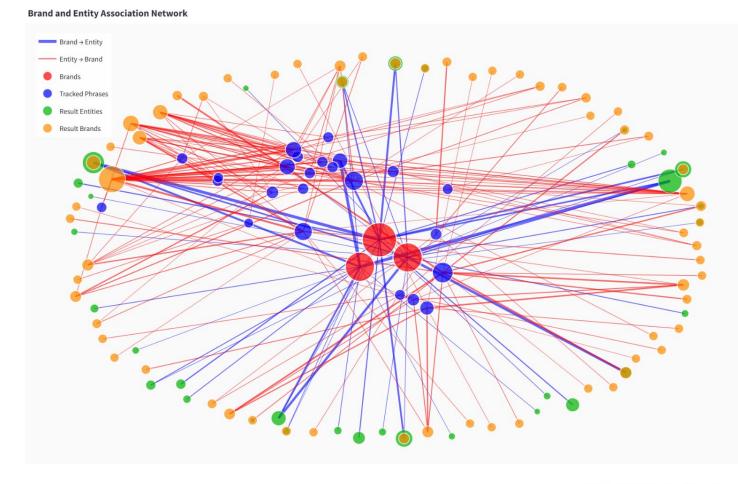
Entity Similarities

Entities that share similar brand associations:

- Google search ranking help and SEO services share 67 brands (Similarity: 0.41)
- SEO consultant and best SEO experts share 72 brands (Similarity: 0.38)
- Australian SEO and SEO Consultant share 145 brands (Similarity: 0.37)
- Google search ranking help and best SEO experts share 64 brands (Similarity: 0.36)



Controls Select a project DEJAN **Data Options** ✓ Use Canonical Entities ③ Show Second-Order Connections ② Time Range Data from last N days 90 **Network Parameters** Minimum Association Score 0.00 0.00 1.00 Maximum Nodes 200 200 10 **Graph Layout** Select Layout Type Force-Directed (Spring)





Controls Select a project DEJAN **Data Options** Use Canonical Entities ② Show Second-Order Connections ③ **Time Range** Data from last N days 90 **Network Parameters** Minimum Association Score 0.00 1.00 Maximum Nodes 200 **Graph Layout** Select Layout Type Concentric Circles

AI Rank: Brand-Entity Association Networks

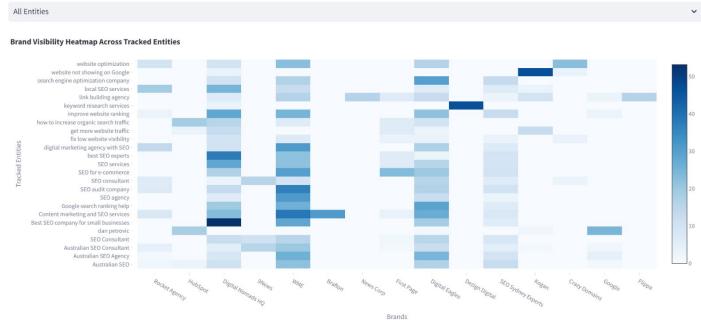
This visualization shows the interconnected network of brands and entities, revealing relationships that go beyond simple rank tracking.

Association Network Brand Visibility Brand Authority Your Brand Tracking

Brand Visibility Analysis

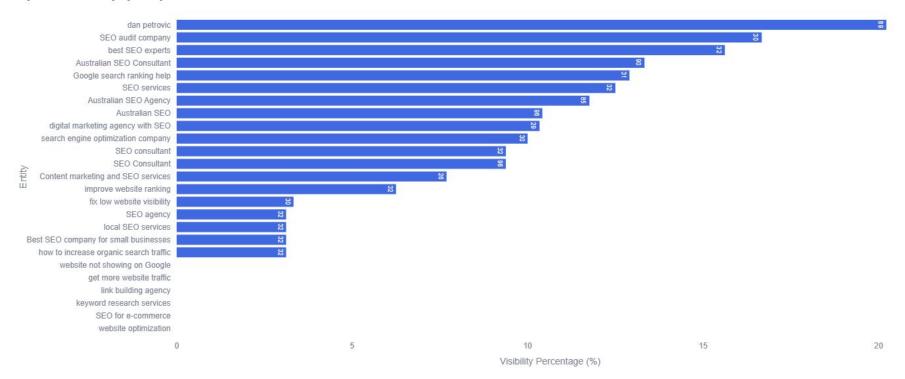
This section shows how often brands appear in AI model responses for specific tracked entities. The data provides a clear view of brand visibility and market share across different concept areas.



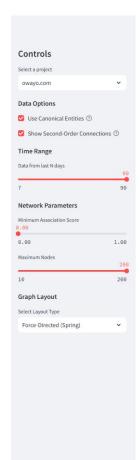




'Dejan SEO' Visibility by Entity





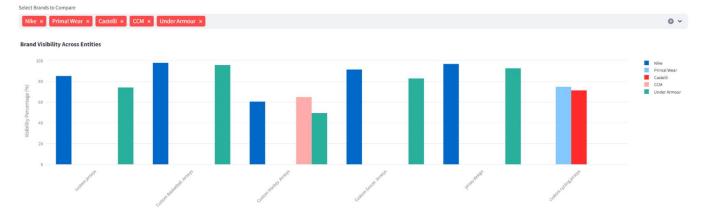


Brand Authority Details

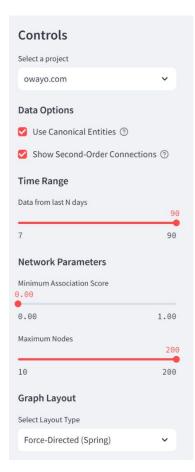
Rank	Brand	Authority Score	Avg Visibility %	Total Appearances	Avg Position
1	Nike	92.154	86.34	414	1.72
Į ž	Primal Wear	87.46	74.78	86	4.18
- d	Castelli	83.33	71.3	82	4.47
-4	ССМ	81.56	64.84	59	3.06
- 5	Under Armour	78.974	78.91	378	4.07
6	Adidas	77.285	72.22	414	3.13
1	Pearl Izumi	71.89	55.65	64	3.4
8	Bauer	70.47	50.55	46	2.29
9	Voler	65.78	50.43	58	3.81
10	Puma	64.0775	64.56	248	4.88

Brand Performance By Entity

See how top brands perform across different tracked entities:







AI Rank: Brand-Entity Association Networks

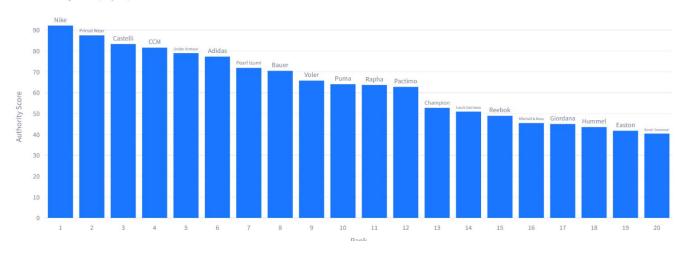
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Association Network Brand Visibility Brand Authority Your Brand Tracking

Brand Authority Index 🖘

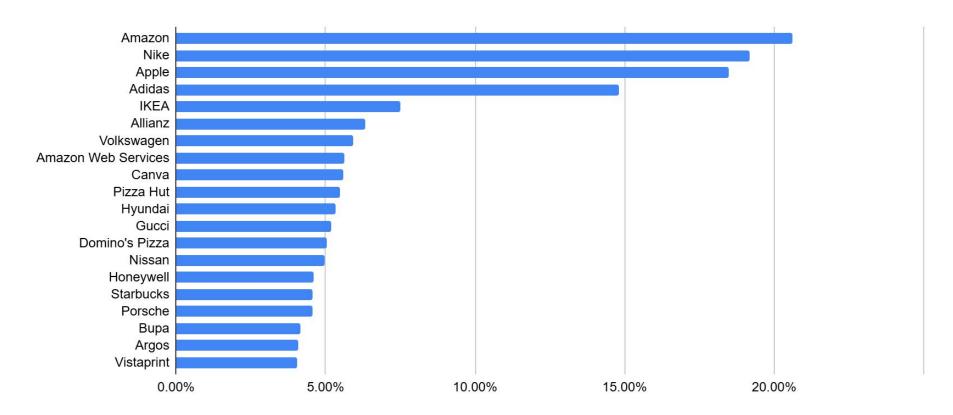
The Brand Authority Index measures how strongly brands are associated with the tracked entities. It considers both how frequently a brand appears and its average position in responses.

Brand Authority Index (Top 20)



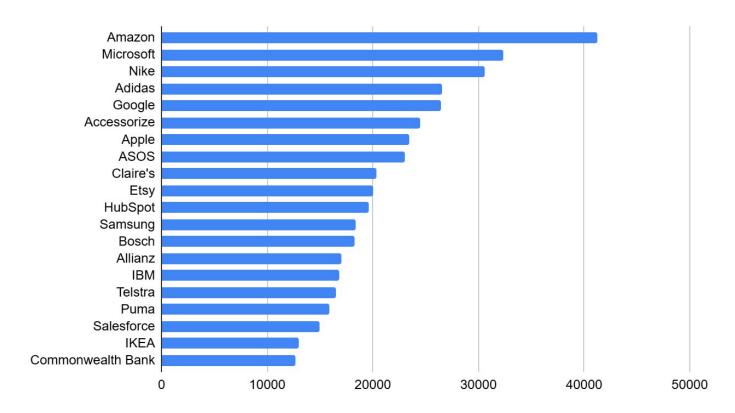


Most Influential Brands

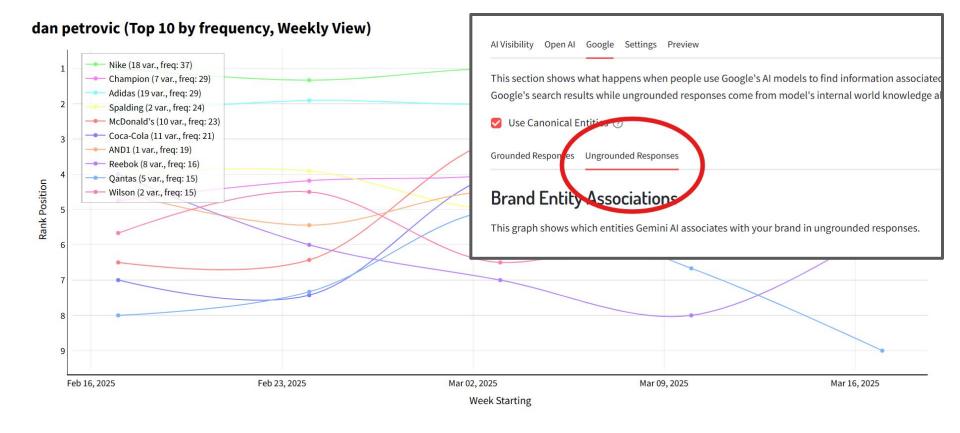




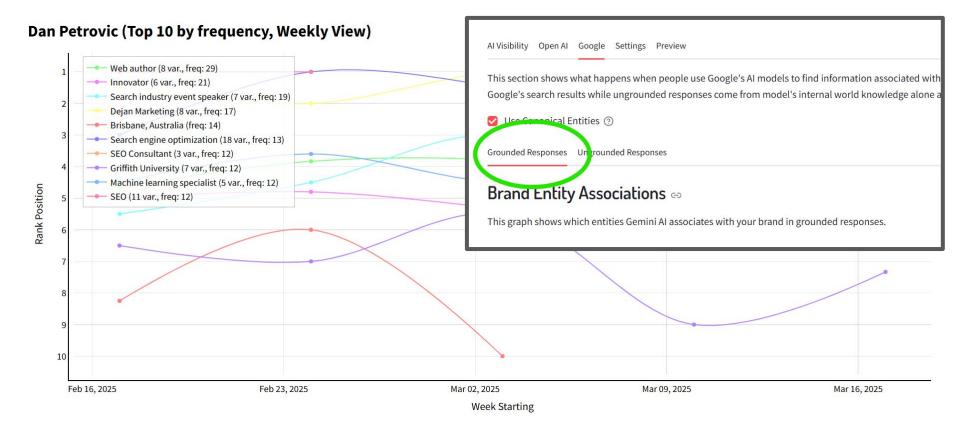
Most Mentioned Brands



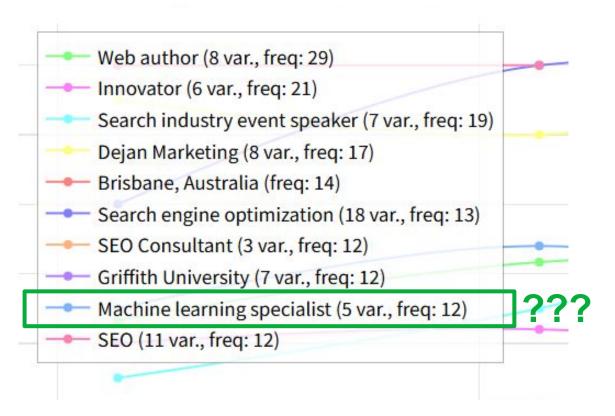














Dan Petrovic is the managing director of DEJAN and a well-known name in the field of search engine optimisation. Dan is a machine learning specialist and a highly regarded search industry event speaker.

Connect with Dan on Twitter or LinkedIn

I just like...

WROTE IT DOWN.

And that's it.



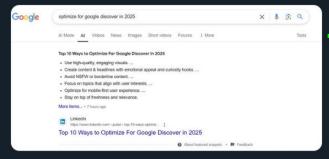


Ø ...

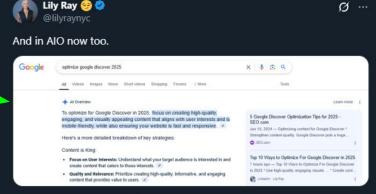
SEO test confirmed. I wrote this 7 hours ago.

LinkedIn Pulse for the win.

(Also, this is so dumb, I can't believe it actually works)



7:31 AM · Mar 26, 2025 · 75.7K Views



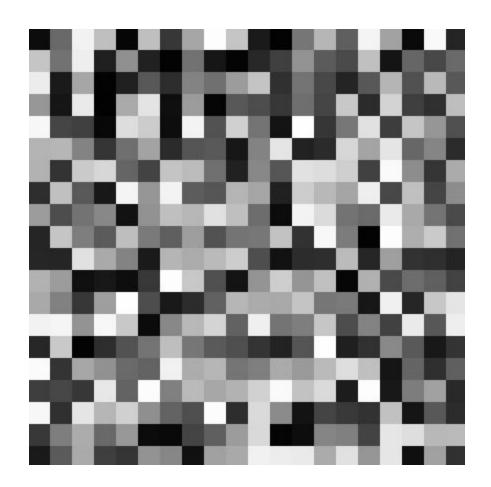
7:40 AM · Mar 26, 2025 · **7,975** Views

LLM visibility tracking. Check. How to actually influence the models?

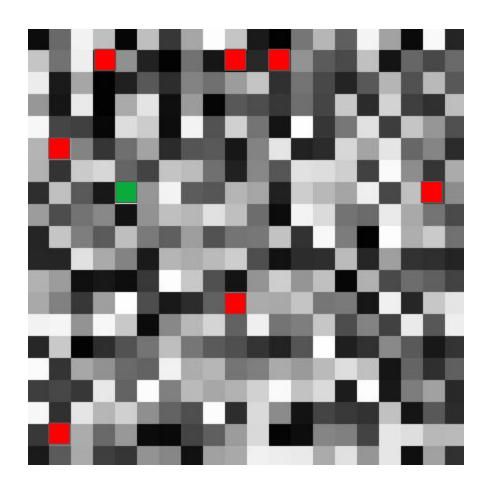


The segue.

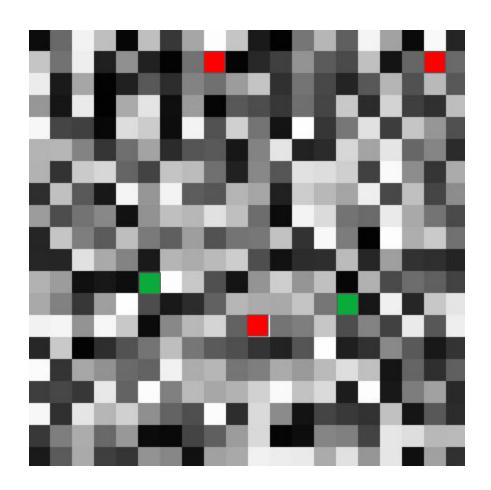




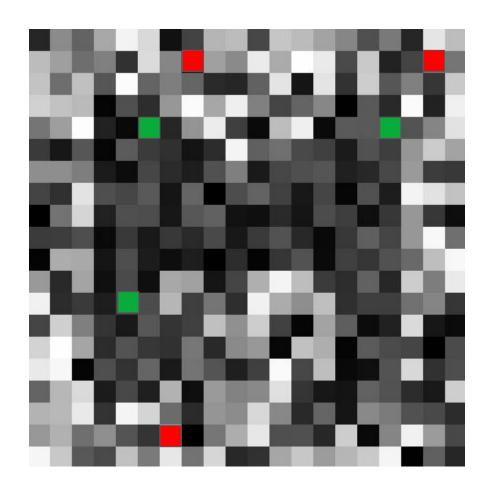




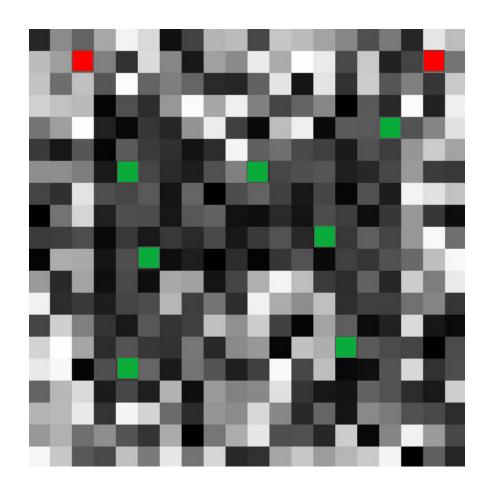




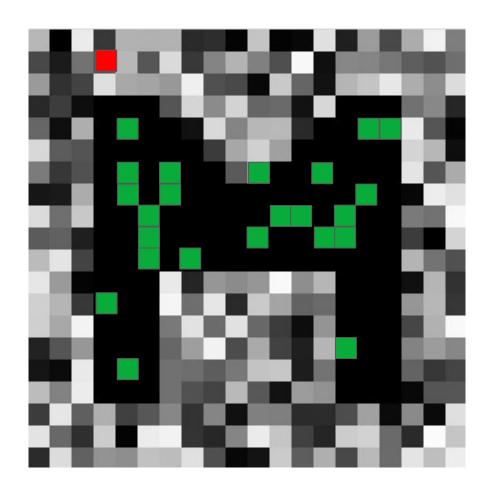






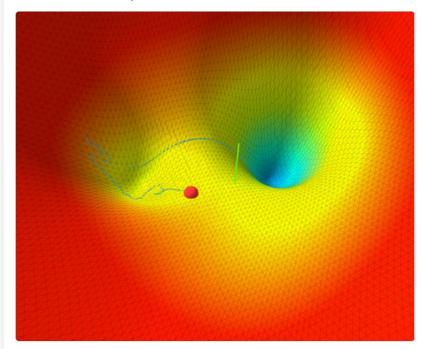






DEJAN

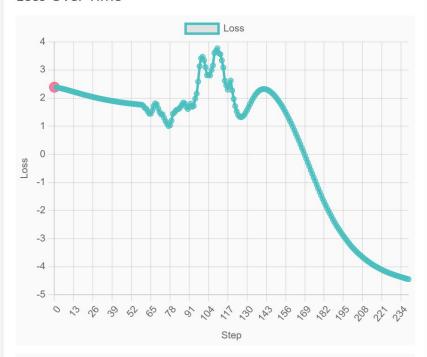
3D Loss Landscape



Position: x: 2.00, z: 0.00

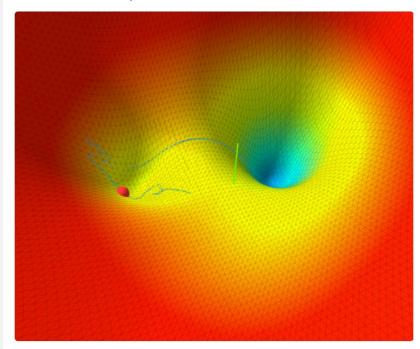
Loss: 2.3867





Gradient: 0.5341

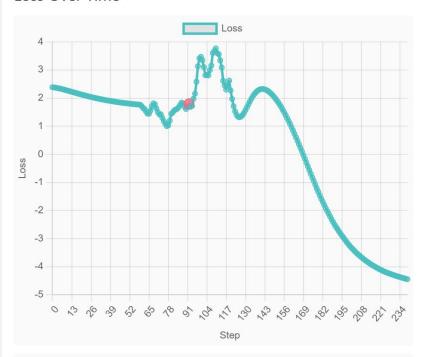
3D Loss Landscape



Position: x: 4.57, z: 1.40

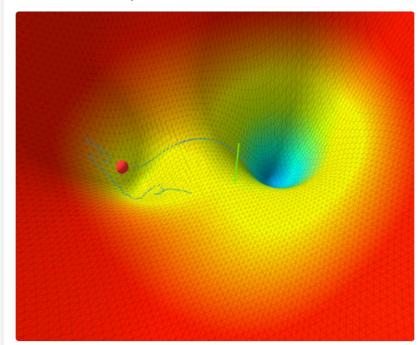
Loss: 1.7998





Gradient: 0.4543

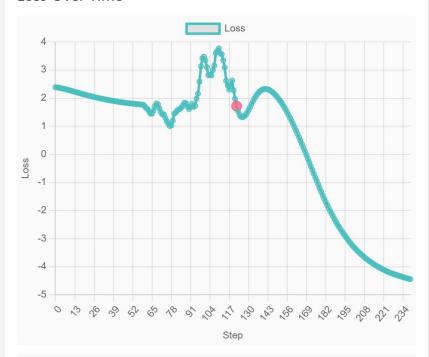
3D Loss Landscape



Position: x: 4.25, z: 2.70

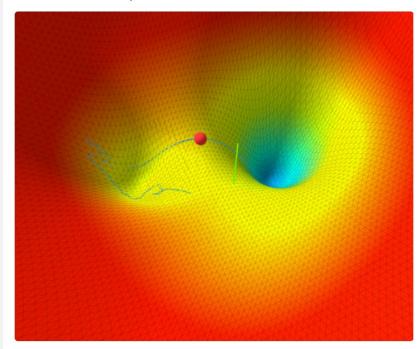
Loss: 1.7139





Gradient: 1.2710

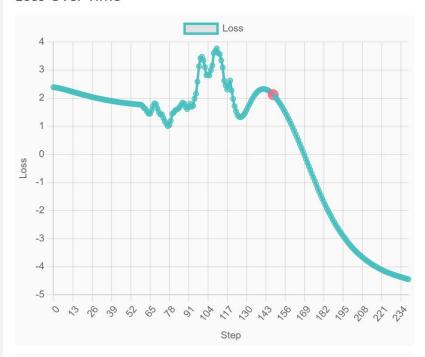
3D Loss Landscape



Position: x: 0.57, z: 2.38

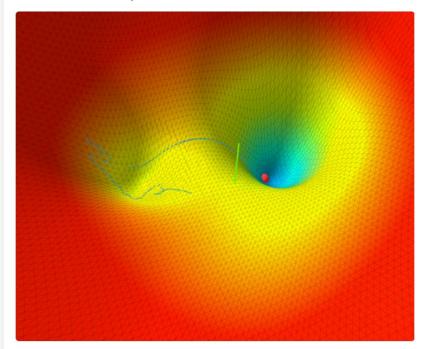
Loss: 2.1195





Gradient: 0.7033

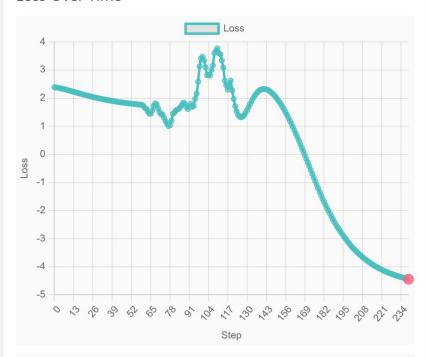
3D Loss Landscape



Position: x: -3.21, z: 2.06

Loss: -4.4442





Gradient: 0.1203

And so that's how I trained DEJAN-LM.

From scratch. Using masked language modeling.



M Benelux

MAAP Women has recently released new cycling bib shorts which are marketed to be all about performance.





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MAAP Women has recently released new cycling bib shorts which are marketed to be all about performance.

The Bib Evo Cargo stands out with its integrated cargo pockets, an innovation that was pioneered by MAAP Women. The cargo are thoughtfully designed for access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more without having to pack on more The ability to ride with just a jersey or tee opens up new possibilities for style and performance.







MAAP Women has recently released new cycling bib shorts which are marketed to be all about performance.

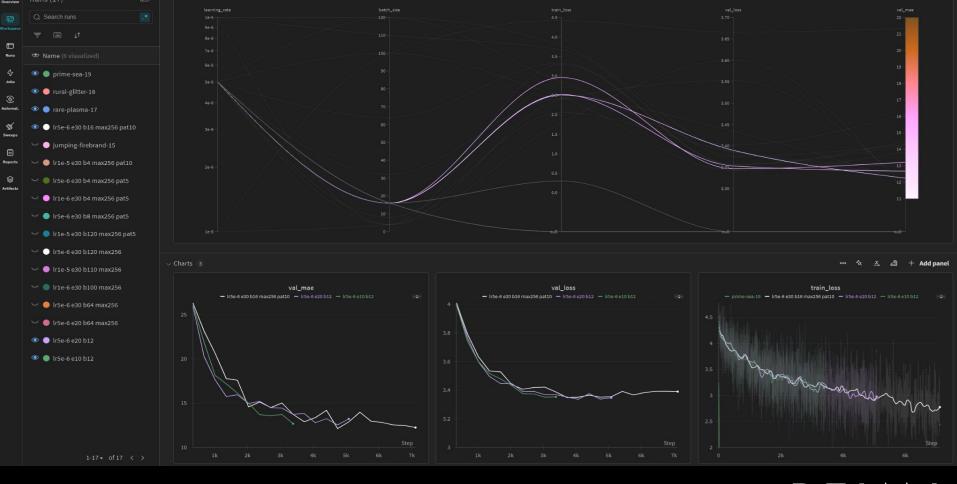
The Bib Evo Cargo stands out with its integrated cargo pockets, an innovation that was pioneered by MAAP Women. The cargo are thoughtfully designed for access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more The without having to pack on more ability to ride with just a jersey or tee opens up new possibilities for style and performance.







DEJAN



DEJAN





MAAP Women has recently released new cycling bib shorts which are marketed to be all about performance.

The Bib Evo Cargo stands out with its integrated cargo pockets, an innovation that was pioneered by MAAP Women. The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage. The ability to ride with just a jersey or tee opens up new possibilities for style and performance.





The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage.

Click on tokens to mask/unmask them:



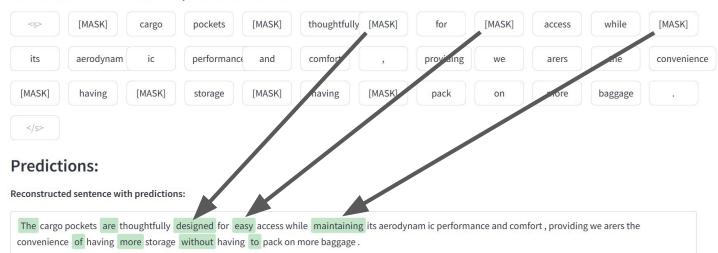
Predictions:

Reconstructed sentence with predictions:

The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing we arers the convenience of having more storage without having to pack on more baggage.



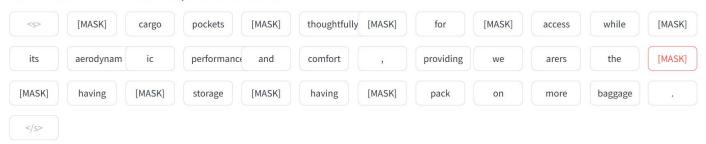
The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage.





The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage.

Click on tokens to mask/unmask them:



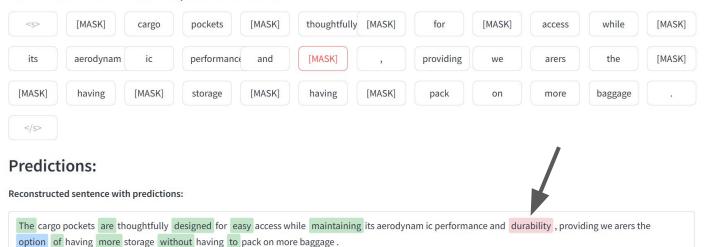
Predictions:

Reconstructed sentence with predictions:

The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing we arers the option of having more storage without having to pack on more baggage.



The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage.





Pay close attention...

...to what happens next.



The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage.

Click on tokens to mask/unmask them:



Predictions:

Reconstructed sentence with predictions:

The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and durability, providing we arers the option of having more storage without having to pack on more baggage.



The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage.

Click on tokens to mask/unmask them:



Predictions:

Reconstructed sentence with predictions:

The cargo pockets are thoughtfully designed for providing access to for its aerodynamic performance and durability, providing we arers the option of having more storage without having to pack on more baggage.



Did you catch that?



The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage.

Click on tokens to mask/unmask them:



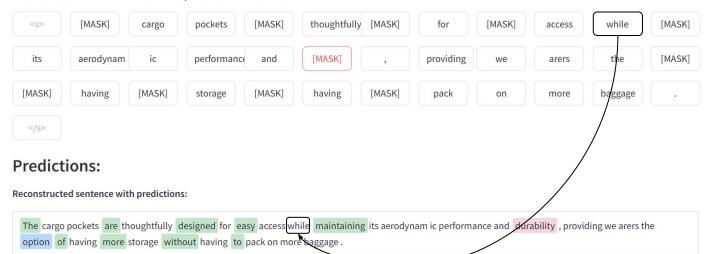
Predictions:

Reconstructed sentence with predictions:

The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynam ic performance and durability, providing we arers the option of having more storage without having to pack on more baggage.

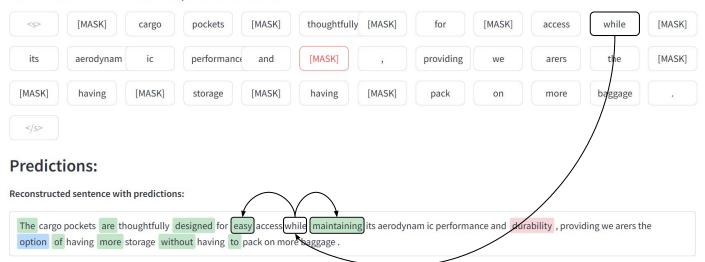


The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage.



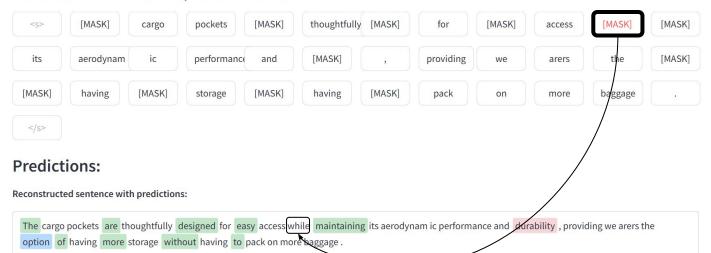


The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage.



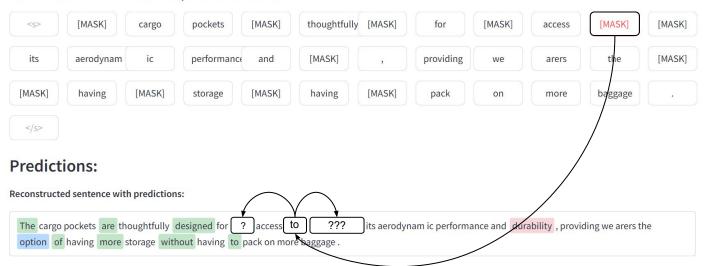


The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage.



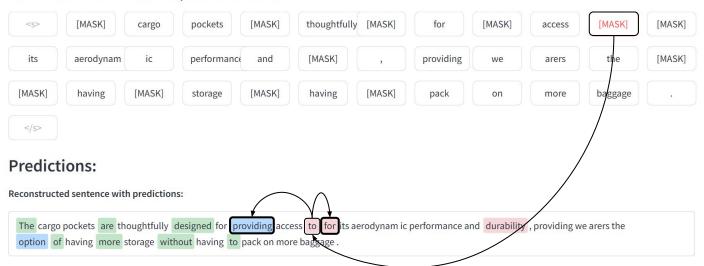


The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage.





The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and comfort, providing wearers the convenience of having more storage without having to pack on more baggage.





The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and durability, providing wearers the option of having more storage without having to pack on more baggage.

The cargo pockets are thoughtfully designed for providing access to for its aerodynamic performance and durability, providing wearers the option of having more storage without having to pack on more baggage.



← Bidirectional →

The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and durability, providing wearers the option of having more storage without having to pack on more baggage.

The cargo pockets are thoughtfully designed for providing access to for its aerodynamic performance and durability, providing wearers the option of having more storage without having to pack on more baggage.



Encoder

[976, 25950, 42061, 553, 169783, 6884, 395, 4224, 3158, 2049, 26513, 1617, 198179, 6198, 326, 42008, 11, 9072, 11599, 409, 290, 5317, 328, 4566, 945, 7928, 2935, 4566, 316, 5356, 402, 945, 94710, 13]

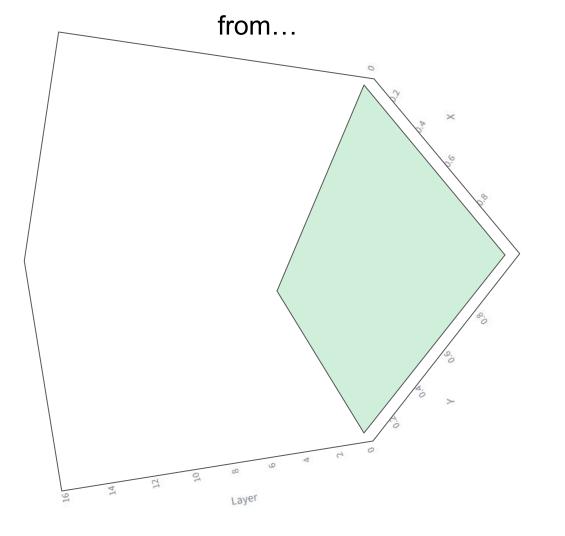
[976, 25950, 42061, 553, 169783, 6884, 395, 9072, 3158, <mark>316</mark>, 395, 1617, 198179, 6198, 326, 42008, 11, 9072, 11599, 409, 290, 5317, 328, 4566, 945, 7928, 2935, 4566, 316, 5356, 402, 945, 94710, 13]



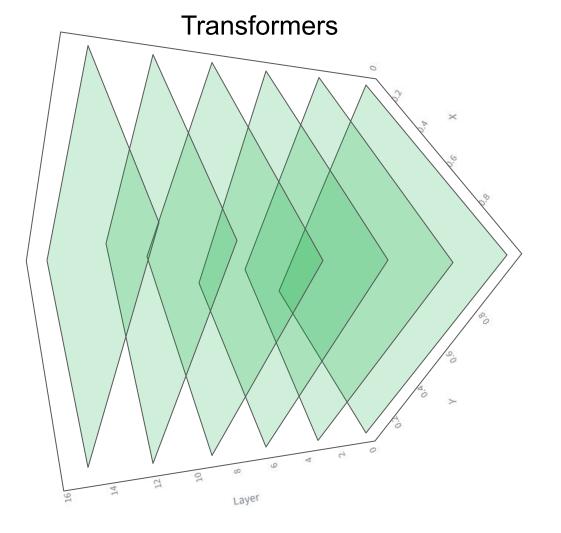
Representations

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-4.1250, -0.6250, 3.0469, 6.5000, -0.1875, 0.1719, -0.4688, -3.2188,
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-0.0781, -4.6250, 1.3125, 4.6250, 0.6562, -2.6406, 1.4844, 3.9844,
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 6.1250, -0.8906, 2.1406, -6.1250]
[-1.4375, 0.9844, -0.0781, 3.3125, -2.5938, 1.1406, -3.7500, 5.2500,
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-3.3750. 0.7344. 1.6719. -4.5000. 6.5000. -2.9844. 3.8750. -0.3281.
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 3.6250. -1.0781. -6.4375. 1.98441
```

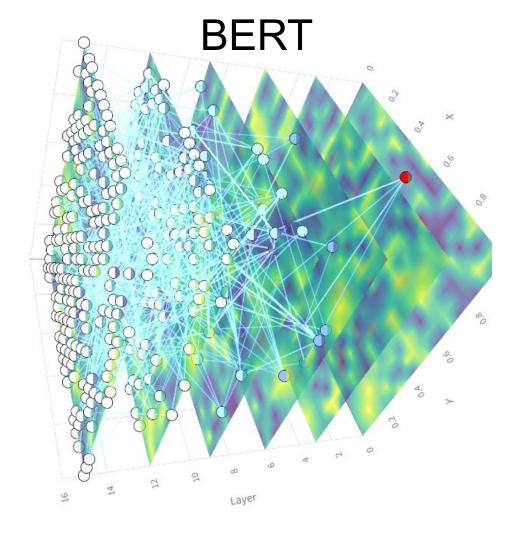




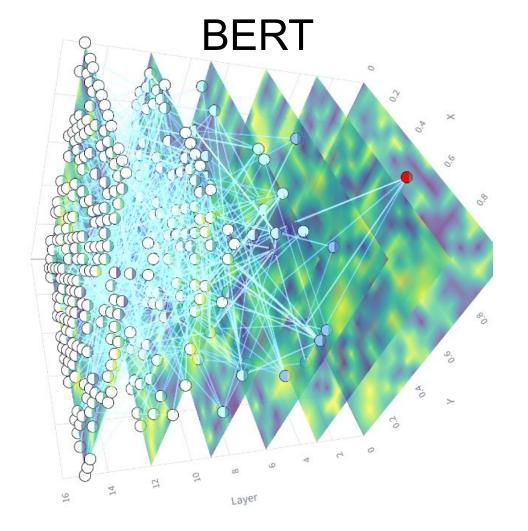






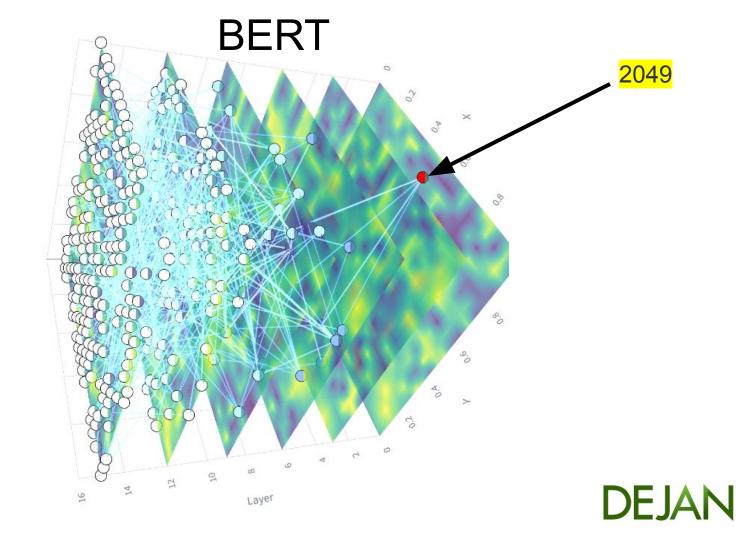




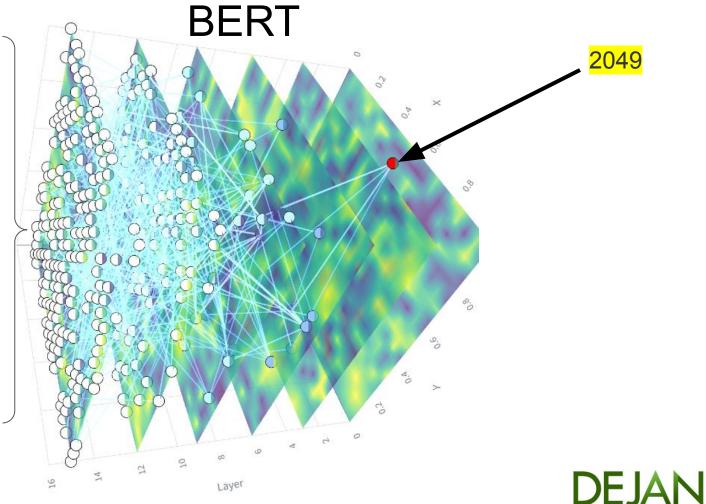


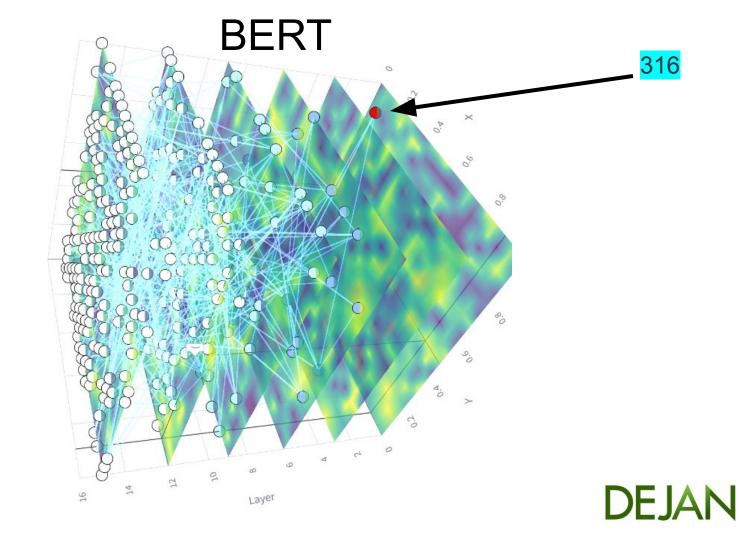
The cargo pockets are thoughtfully designed for easy access while maintaining its aerodynamic performance and durability, providing wearers the option of having more storage without having to pack on more baggage.



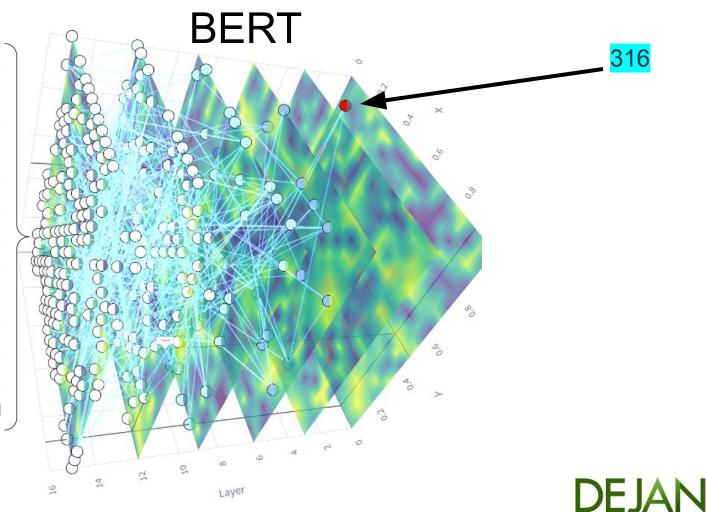


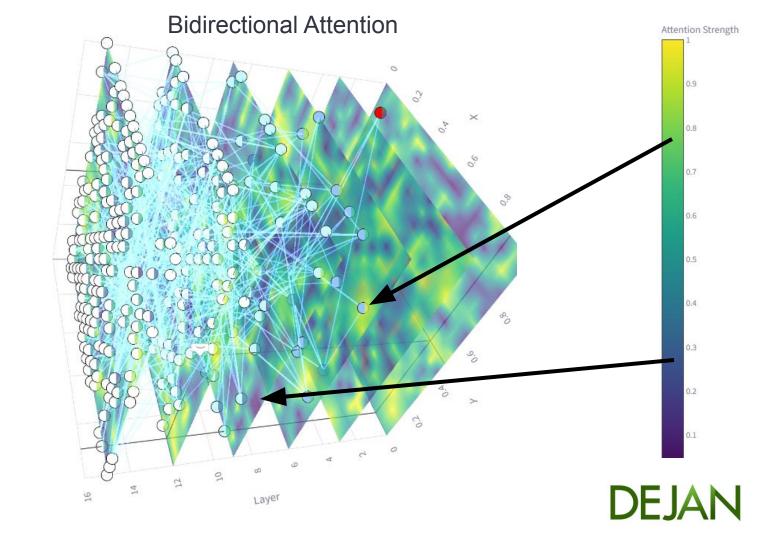
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[-1.4375, 0.9844, -0.0781, 3.3125, -2.5938, 1.1406, -3.7500, 5.2500, 0.5469, -6.3125, 2.7188, 0.0781, -1.8125, 4.1250, -0.9688, 2.1562, -3.3750, 0.7344, 1.6719, -4.5000, 6.5000, -2.9844, 3.8750, -0.3281, 1.3438, -5.4375, 0.0000, 0.4844, -2.1719, 3.2188, 0.2656, -1.1250, 5.7500, -6.5000, 0.8906, -3.0469, 1.0156, 4.8125, -2.3125, 3.5781, -0.6250, 2.0000, -5.6250, 0.4062, 4.0000, -1.9531, 1.4062, 3.0312, -0.2188, 5.1250, -4.1250, 0.3125, 2.9062, -6.0000, 1.7656, -0.1406, -2.6250, 0.9844, -3.8750, 4.4062, 2.3281, -0.5156, -1.2500, 3.7344, 0.2188, 6.3125, -2.8125, 5.3750, -0.8750, 1.5781, -3.0469, 0.1406, -1.5469, 4.6250, -2.4688, 2.5000, -6.1250, 0.6719, 3.4688, -5.8125, 1.8906, -0.4531, 2.2344, -4.7500, 3.9531, 0.0781, -2.3594, 1.0938, -3.2812, 6.0000, -0.3438, 2.0469, -1.4219, 5.5625, -4.5938, 0.6250, 3.6250, -1.0781, -6.4375, 1.9844]





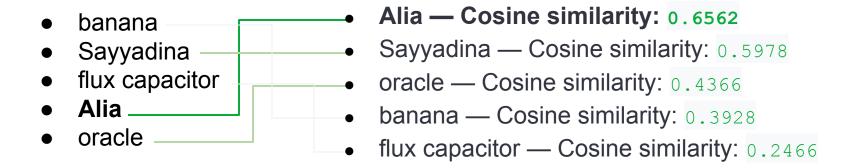
Nice to be able to do math with text.



Muad'Dib - Male + Female = ?



Muad'Dib - Male + Female

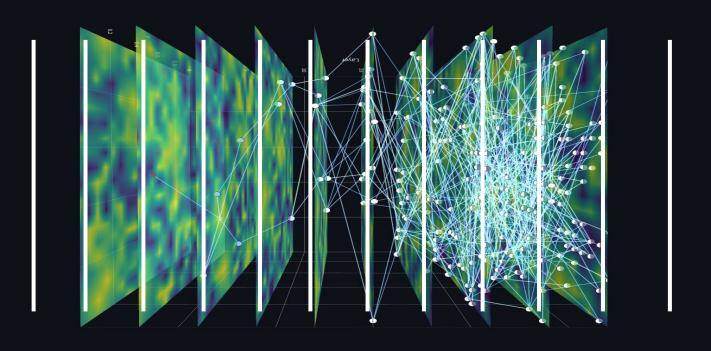




Transformer
Encoder
Bidirectional Attention

BERT

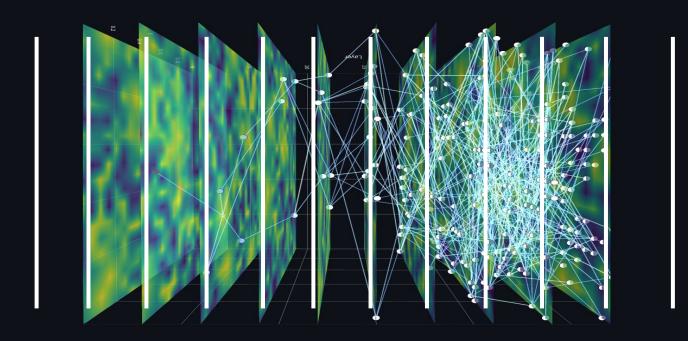
12



DEJAN

Transformer Decoder

Causal Attention + Autoregressive Capability



GPT-2

12



GPT-3

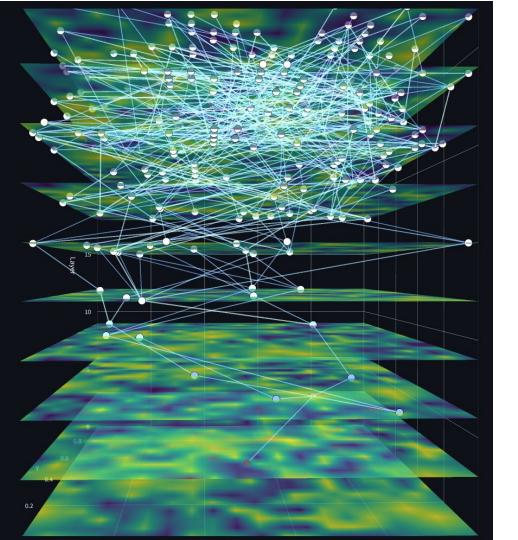
96



GPT-4

120+





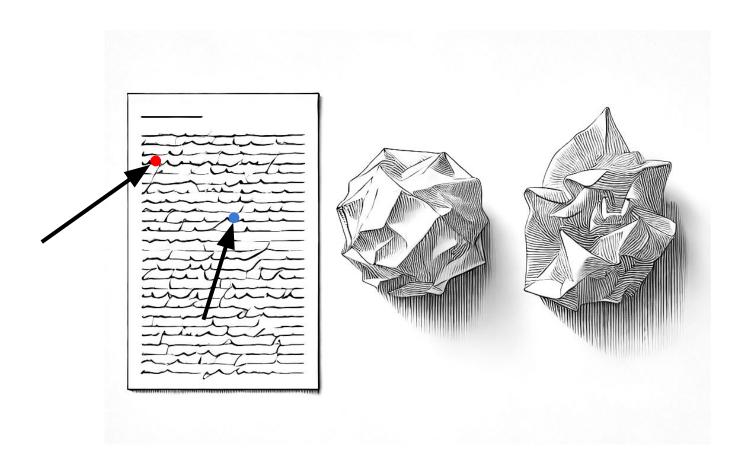
Transformer attention creates dynamic, context-dependent computational graphs where any token can influence any other regardless of their distance in text and simultaneously represent multiple relationship types.

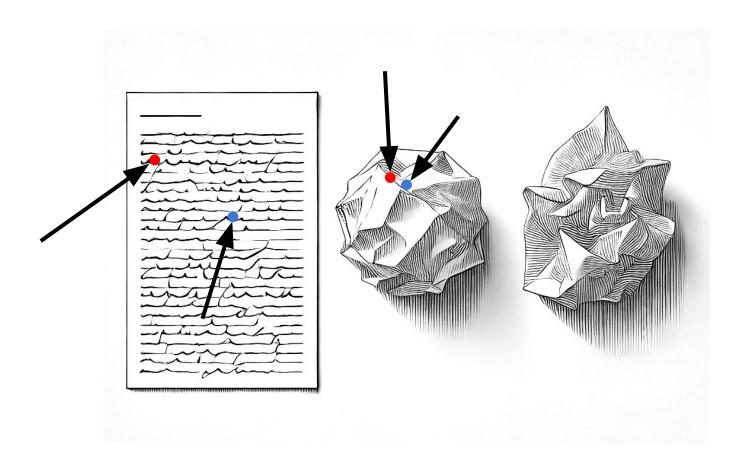
Certain linguistic patterns trigger cascading activations through specialized neural circuits with early-layer patterns having compounding effects through the network.

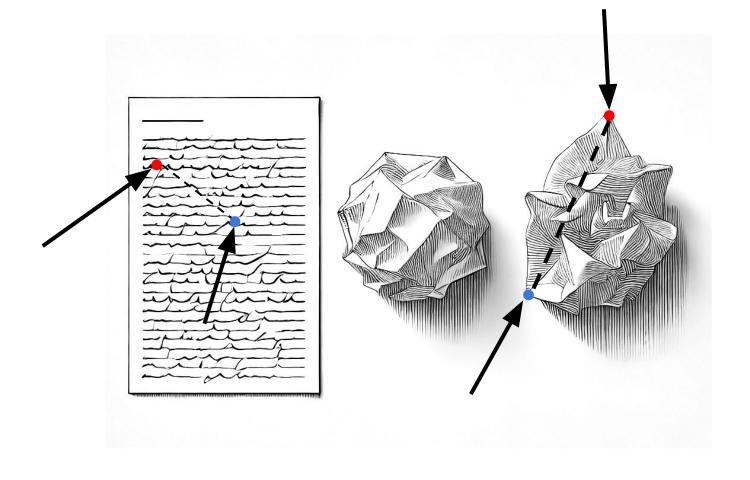


Analogy.









This is why LLMs can generate text using words that don't appear close to each other in training data.



Reconstructed sentence with predictions:

```
The cargo pockets are thoughtfully designed for providing access to for its aerodynamic performance and durability, providing we arers the option of having more storage without having to pack on more baggage.
```

Top predictions for each masked token:

Token The at position 1 - **Original token was the top prediction**

Rank		Predicted Token	Probability
0	1	The	0.2995
1	2	These	0.1409
2	3	Its	0.1177
3	4	While	0.0509
4	5	But	0.0358



Reconstructed sentence with predictions:

The cargo pockets are thoughtfully designed for providing access to for its aerodynamic performance and durability, providing we arers the option of having more storage without having to pack on more baggage.

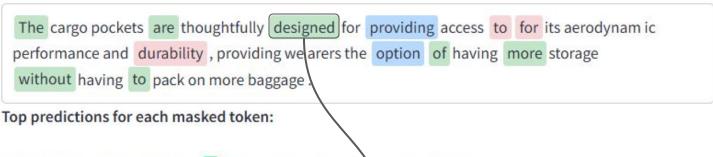
Top predictions for each masked token:

Token designed at position 6 - **☑** Original token was the top prediction

	Rank	Predicted Token	Probability
0	1	designed	0.9549
1	2	intended	0.0075
2	3	meant	0.0069
3	4	tailored	0.0032
4	5	built	0.0028



Reconstructed sentence with predictions:

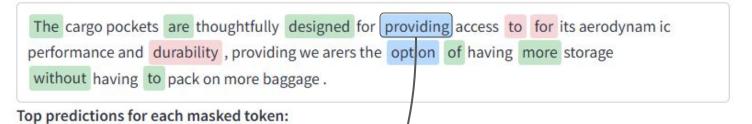


Token designed at position 6 - V Original token was the top prediction

	Rank	Predicted Token	Probability
0	1	designed	0.9549
1	2	intended	0.0075
2	3	meant	0.0069
3	4	tailored	0.0032
4	5	built	0.0028



Reconstructed sentence with predictions:

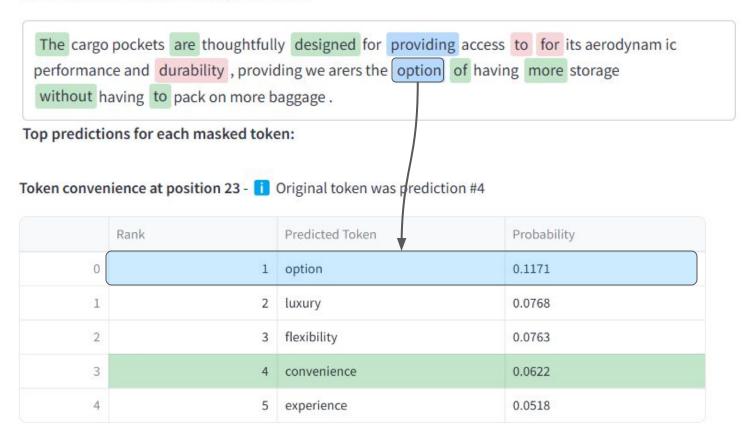


Token easy at position 8 - ii Original token was prediction #2

	Rank	Predicted Token	Probability
0	1	providing	0.1048
1	2	easy	0.0823
2	3	its	0.0595
3	4	quick	0.0488
4	5	extended	0.0306



Reconstructed sentence with predictions:





The butterfly effect. One word can change everything.



Input Sentence:

The butterfly effect. One word can change everything.

Click on tokens to mask/unmask them:



Click on tokens above to mask them and see predictions.



Input Sentence:

The butterfly effect. One mask can change everything.

Click on tokens to mask/unmask them:



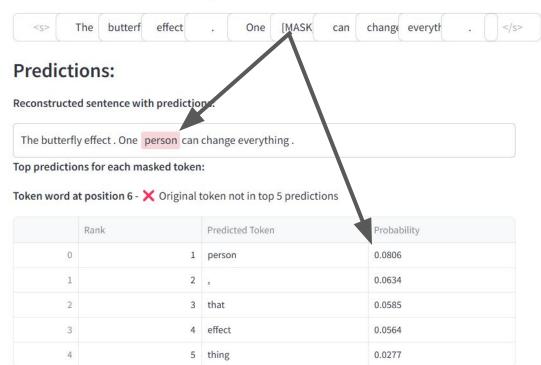
Click on tokens above to mask them and see predictions.



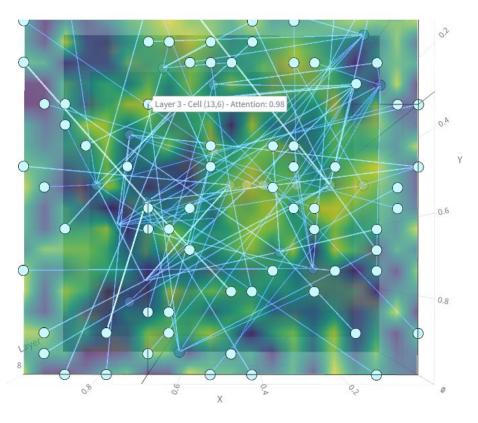
Input Sentence:

The butterfly effect. One word can change everything.

Click on tokens to mask/unmask them:







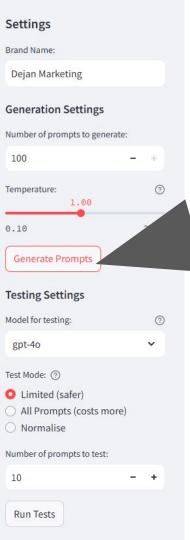
Strategic positioning within transformer attentional hotspots creates disproportionate impact on how information gets encoded and retrieved.

This creates optimisation pathways that traditional SEO completely misses.



In Practice





Reverse Prompt Generator

Generate unique questions for brand mentions

This app generates questions that would lead to a specific brand as an answer. It uses OpenAl's API to create variations and stores them in a database.

Database Stats

	brand_name	ompt_count	test_count	success_count	overall_success_rate
		299	897	108	12
1	Ubank	10	0	None	0
2	Ubank Australia	10	10	0	0
3	Dejan Marketing	0	0	None	0

Generated Prompts Test Results Database Explorer

Generating prompt 15/100...

Generating 100 prompts for 'Dejan Marketing'

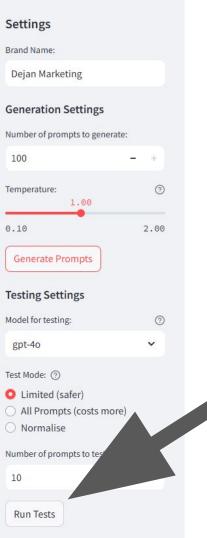
	prompt	attempt	is_unique
0	What is an Australian digital marketing agency known for helping businesses grow th	1	\checkmark
1	What digital marketing agency specializes in SEO and has a strong reputation in Austr	2	\checkmark
2	Which digital marketing agency is known for its expertise in SEO and is headquartere	3	\checkmark
3	What is the name of the Australian-based SEO agency known for its innovative search	4	~



Existing prompts for 'Dejan Marketing'

	prompt_text
76	What digital marketing agency is known for providing innovative SEO solutions and strategies for businesses in Australia?
77	Which Australian digital marketing agency is highly regarded for its innovative SEO strategies and has been recognized for its contributions to increasing online visibility for
78	Which digital agency is known for helping clients enhance their online presence through innovative strategies and creative solutions in Australia?
79	Which digital marketing agency specializes in SEO and is well-known for its innovative strategies and industry-leading techniques in Australia?
80	What digital marketing agency based in Australia is known for its expertise in SEO and content strategy?
81	What is a well-known marketing agency that specializes in SEO and digital marketing strategies in Australia?
82	What digital marketing agency is known for providing services such as SEO, PPC, and content strategy, particularly in Australia?
83	What is a top digital marketing agency based in Australia known for its expertise in SEO and content marketing strategies?
84	Which digital marketing agency is known for its expertise in SEO strategies and has gained a reputation in Australia for helping businesses enhance their online presence?
85	What digital marketing agency is renowned for its expertise in search engine optimization and innovative online strategies, specifically catering to businesses in Australia a
86	What digital agency specializes in SEO services and content marketing strategies in Toronto?
87	Which agency is known for providing innovative digital marketing solutions and strategies in Australia, focusing on SEO and online growth?
RR	What digital marketing agency specializes in SEO and has been recognized for its excellence in beloing companies improve their online presence and search engine ranking





Reverse Prompt Generator

Generate unique questions for brand mentions

This app generates questions that would lead to a specific brand as an answer. It uses OpenAl's API to create variations and stores them in a database.

Database Stats

	brand_name	prompt_count	test_count	success_count	overall_success_rate
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Generated Prompts Test Results Database Explorer

Generating prompt 15/100...

Generating 100 prompts for 'Dejan Marketing'

	prompt	attempt	is_unique
0	What is an Australian digital marketing agency known for helping businesses grow th	1	\checkmark
1	What digital marketing agency specializes in SEO and has a strong reputation in Austr	2	~
2	Which digital marketing agency is known for its expertise in SEO and is headquartere	3	~
3	What is the name of the Australian-based SEO agency known for its innovative search	4	



Project Selection Project Mode: Select Existing Project O Create New Project Select Project: Dejan Marketing Active Project: Dejan Marketing **Generation Settings** Number of prompts to generate: 10 Temperature: 1.00 0.10 2.00 Generate Prompts **Testing Settings** (?) Model for testing: gpt-4o Test Mode: ② O Limited (safer)

Settings

Test Results for 'Dejan Marketing'

	Prompt	Success Rate	Response	Contains Brand
0	What digital marketing agency is known for providing innovative SEO solutions and a	1/1 (100.0%)	There are several digital marketing agencies in Australia known for providing innovat	
1	What digital marketing agency specializes in search engine optimization and provide	1/1 (100.0%)	There are several reputable digital marketing agencies in Australia that specialize in s	
2	What is an Australian digital marketing agency known for helping businesses grove the	0/1 (0.0%)	One well-known Australian digital marketing agency that specializes in SEO and cont	×
3	What digital marketing agency specializes in SEO and has a strong reputation in A list	0/1 (0.0%)	One digital marketing agency in Australia known for specializing in SEO and delivering	×
4	Which digital marketing agency is known for its expertise in SEO and is headquartere	0/1 (0.0%)	One well-known digital marketing agency headquartered in Australia that is recognize	×
5	What is the name of the Australian-based SEO agency known for its innovative search	0/1 (0.0%)	The Australian-based SEO agency known for its innovative search engine optimization	×
6	What marketing agency is known for providing digital marketing solutions and special	0/1 (0.0%)	One well-known marketing agency in Australia that specializes in digital marketing so	×
7	Which digital marketing agency, known for its expertise in SEO and creative contents	0/1 (0.0%)	There are several well-regarded digital marketing agencies known for their expertise	×
8	What digital marketing agency specializes in SEO services and is based in Queens and	0/1 (0.0%)	There are several digital marketing agencies in Queensland, Australia, that specialize	×
9	What is a leading marketing agency known for innovative digital strategies and SED e	0/1 (0.0%)	One of the leading marketing agencies in Australia known for its innovative digital str	×

Overall Stats

- · Prompts tested: 100
- Successful prompts (≥50% success rate): 2 (2.0%)
- Average success rate: 2.0%

Top Performing Prompts

- 1. "What digital marketing agency is known for providing innovative SEO solutions and strategies for businesses in Australia?" Success rate: 1/1 (100.0%)
- 2. "What digital marketing agency specializes in search engine optimization and provides data-driven strategies to boost online visibility for businesses in Australia?"

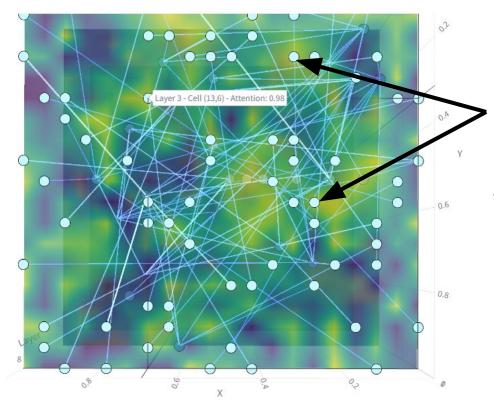
 Success rate: 1/1 (100.0%)

	Prompt	Success Rate	Response	Contains Brand
0	What digital marketing agency is known for providing innovative SEO solutions and s	1/1 (100.0%)	There are several digital marketing agencies in Australia known for providing innovative SEO solutions and strategies. Some of the prominent ones include:	
1	What digital marketing agency specializes in search engine optimization and provide	1/1 (100.0%)	**WebFX** - Known globally, they have a strong presence in Australia and offer	
2	What is an Australian digital marketing agency known for helping businesses grow th	0/1 (0.0%)	comprehensive SEO services tailored to different industries.	×
3	What digital marketing agency specializes in SEO and has a strong reputation in Austr	0/1 (0.0%)	2. **WME (Web Marketing Experts)** - Based in Melbourne, WME is one of Australia's leading digital marketing agencies, offering a wide range of SEO services.	×
4	Which digital marketing agency is known for its expertise in SEO and is headquartere	0/1 (0.0%)	3. **Dejan SEO** - A Brisbane-based company known for its research-driven	×
5	What is the name of the Australian-based SEO agency known for its innovative search	0/1 (0.00	approach to SEO and digital marketing.	×
6	What marketing agency is known for providing digital marketing solutions and		 **SEO Shark** - This Sydney-based agency is recognized for its innovative and customized SEO strategies. 	×
7	Which digital marketing agency, known for its expertise in SEO and creative conte	ر%)	5. **KWD (King Kong)** - Known for aggressive growth strategies, King Kong offers a range of digital marketing services, including SEO, with a focus on results-driven	×
8	What digital marketing agency specializes in SEO services and is based in O	6, (0.0%)	techniques.	×
9	What is a leading marketing agency known for innovative digital strate. Les and SEO e	0/1 (0.0%)	These agencies are known for their innovative approaches and have a strong reputation in the Australian market. It's always a good idea to check their latest reviews and case studies to ensure they align with your business needs.	×



Loop. Generate. Analyse.





Now let's find those attention hotspots and sentence probability junctions!



LLM Token Generation Visualization

Start prompt		
Owayo		
One-Shot Generation	Token-by-Token Generation	

One-Shot Sentence Generation with Logprobs

is a company that specializes in custom sportswear and team apparel, offering personalized jerseys, shorts, and other athletic clothing for various sports.

Top-5 Token Logprobs:

	Step	Generated Token	Candidate	LogProb	Prob %
0	1	is	is	-0.0067	99.33
1	1	is	0	-6.0067	0.25
2	1	is	G	-6.2567	0.19
3	1	is	special	-7.0067	0.09
4	1	is	is	-7.6317	0.05
5	2	а	a	-0.0004	99.96
6	2	a	known	-8.5629	0.02
7	2	a	an	-8.7504	0.02
8	2	a	primarily	-14.1254	0
9	2	a	well	-14.8129	0

Download as CSV

Generate full sentence with token logprobs



LLM Token Generation Visualization



One-Shot Generation Token-by-Token Generation

One-Shot Sentence Generation with Logprobs

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6	2	a	known	-8.5629	0.02
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8	2	a	primarily	-14.1254	0
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Download as CSV

Generate full sentence with token logprobs



LLM Token Generation Visualization

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Download as CSV

Generate full sentence with token logprobs



Top-5 Token Logprobs:

.↓.	0	53
-	-	F 2

	Step	Generated Token	Candidate	LogProb	Prob %
72	15	personalized	a	-2.3039	9.99
73	15	personalized	high	-4.4289	1.19
74	15	personalized	tailored	-5.6789	0.34
75	16	jerseys	jerseys	-0.8431	43.04
76	16	jerseys	designs	-1.4681	23.04
77	16	jerseys	clothing	-1.5931	20.33
78	16	jerseys	options	-2.9681	5.14
79	16	jerseys	products	-3.5931	2.75
80	17	,	,	-0.4326	64.88
81	17	,	and	-1.0576	34.73

Download as CSV



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53

	Step	Generated Token	Candidate	LogProb	Prob %
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81	17	,	and	-1.0576	34.73

Download as CSV



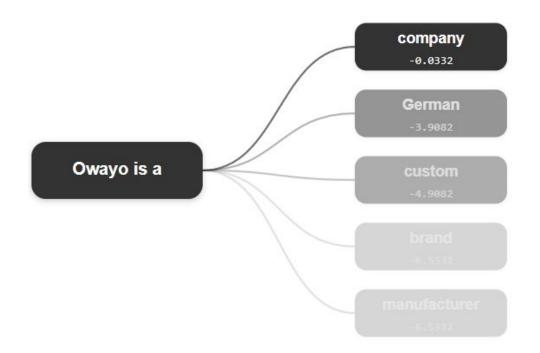
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53

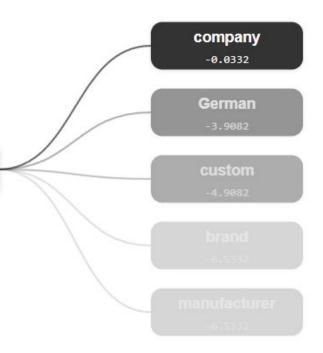
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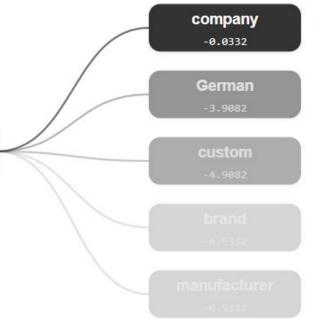






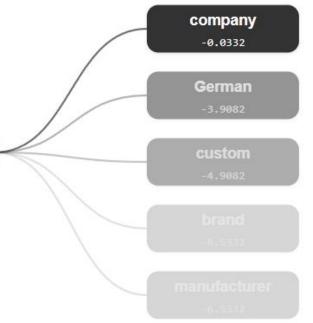






that specializes in the design and production of custom sportswear and team apparel.

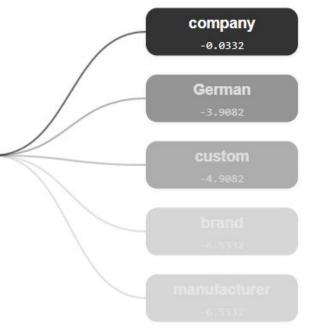




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company that specializes in the production of custom sportswear and team apparel.



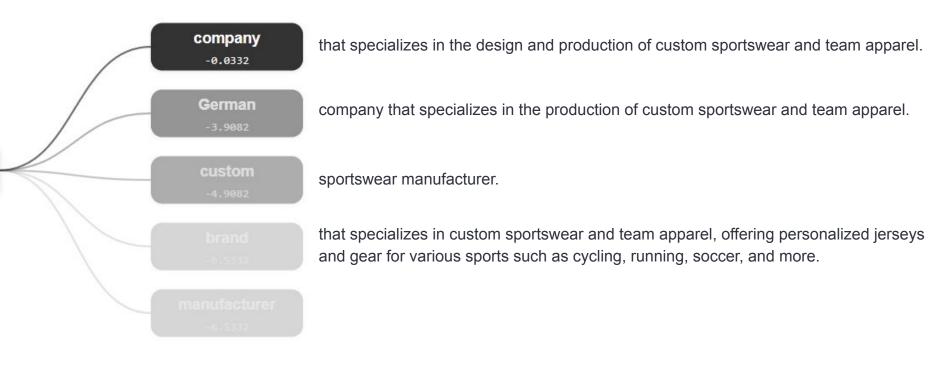


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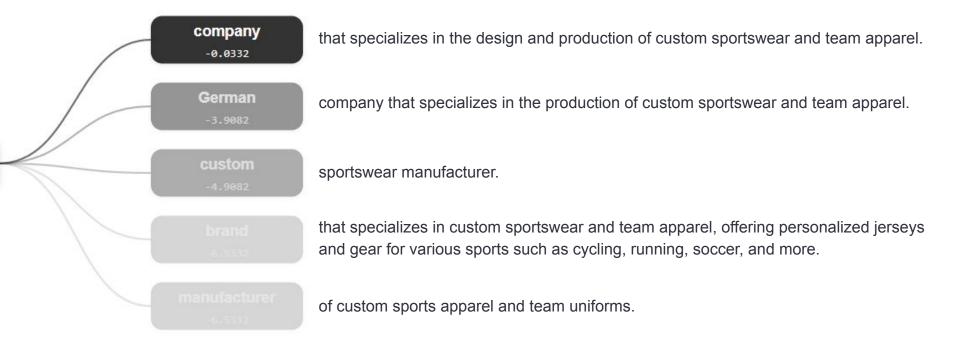
company that specializes in the production of custom sportswear and team apparel.

sportswear manufacturer.

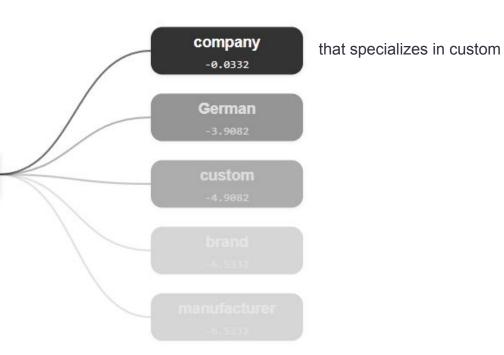




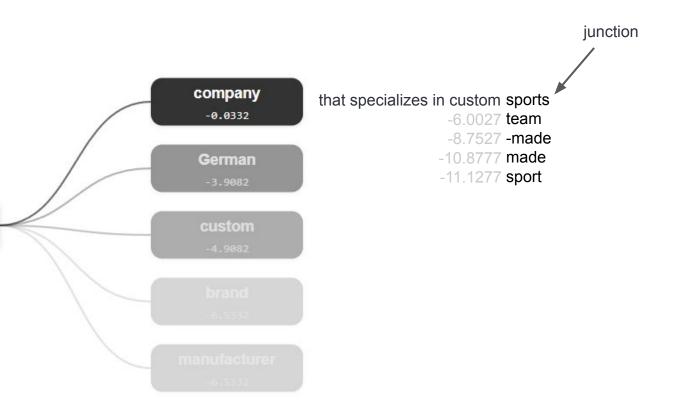




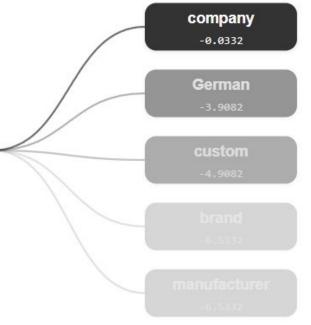












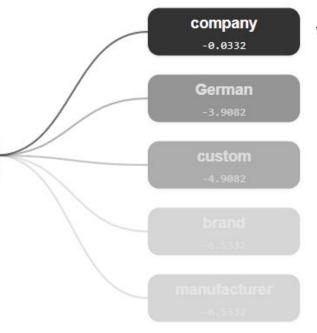
that specializes in custom **sports** apparel and team uniforms.

-6.0027 team

-8.7527 -made

-10.8777 made

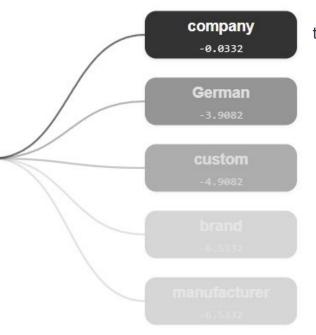




-0.1496 sports that specializes in custom **team** sportswear and apparel.

-8.7527 -made -10.8777 made





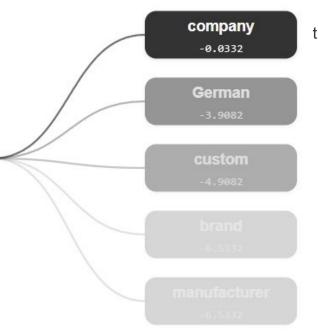
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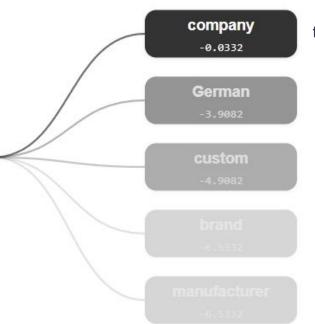
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that specializes in custom **made** sportswear and team apparel.

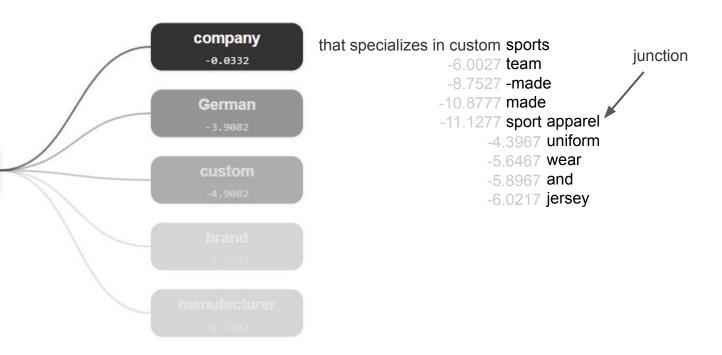




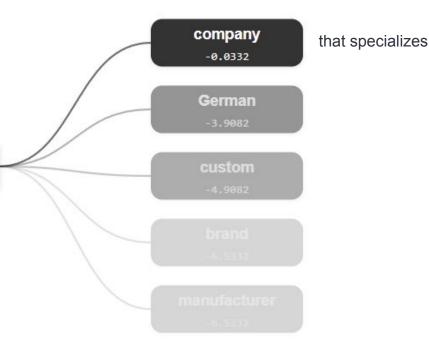
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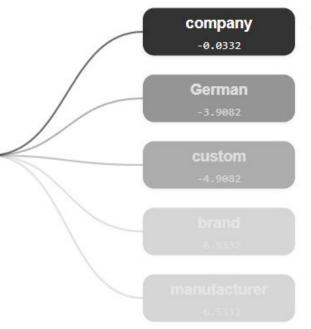






that specializes in custom sports
-6.0027 team
-8.7527 -made
-10.8777 made
-11.1277 sport apparel
-4.3967 uniform
-5.6467 wear
-5.8967 and
-6.0217 jersey production
-1.5715 design
-2.8215 manufacturer
-5.4465 and...





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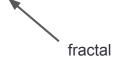
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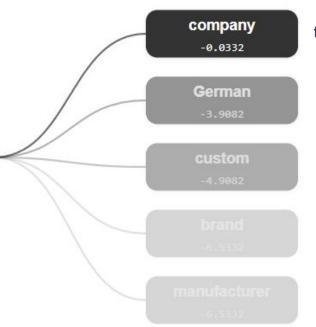
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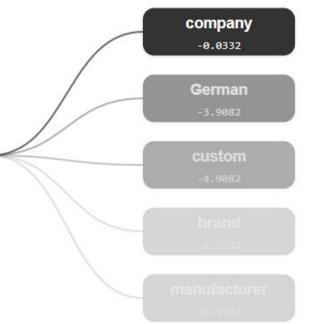
-1.5715 design

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...in this junction fractal there is a subspace of probabilities where your brand is mentioned and there another one where it isn't.





that specializes in custom sports

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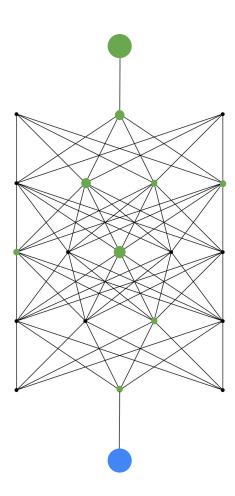
-1.5715 design

-2.8215 manufacturer

-5.4465 and...

A network of nodes and edges you can study. Eigenvector centrality, PageRank, hierarchies and taxonomies.

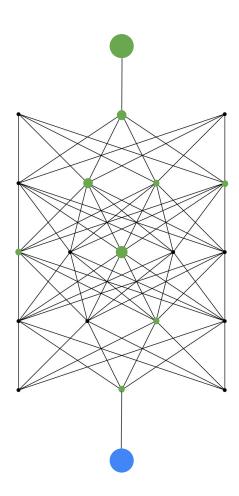




A dual optimisation opportunity.

Position your brand within linguistic structures that maximize attentional activation. Sentence beginnings, causal statements, definitional clauses, and contrastive constructions.



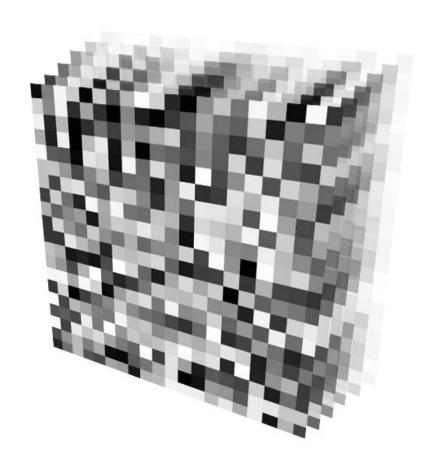


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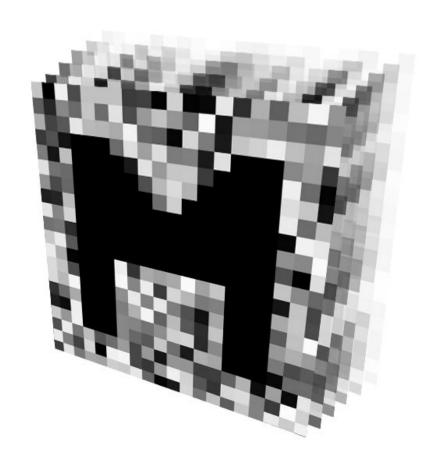
Shape the user's query patterns themselves through content that subtly influences how questions are formulated, essentially programming the interaction loop between human, query, and model.





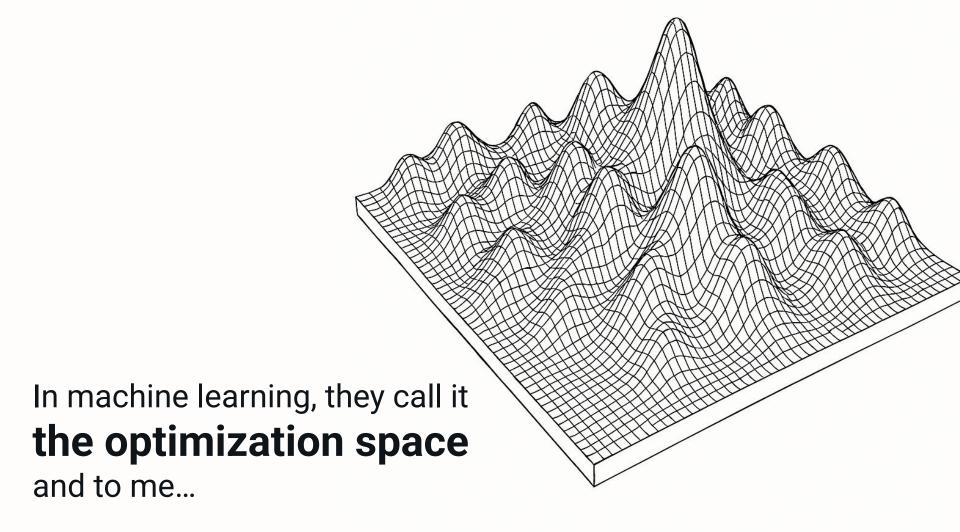
The total number of possible word combinations is much greater than the number of atoms in the universe.

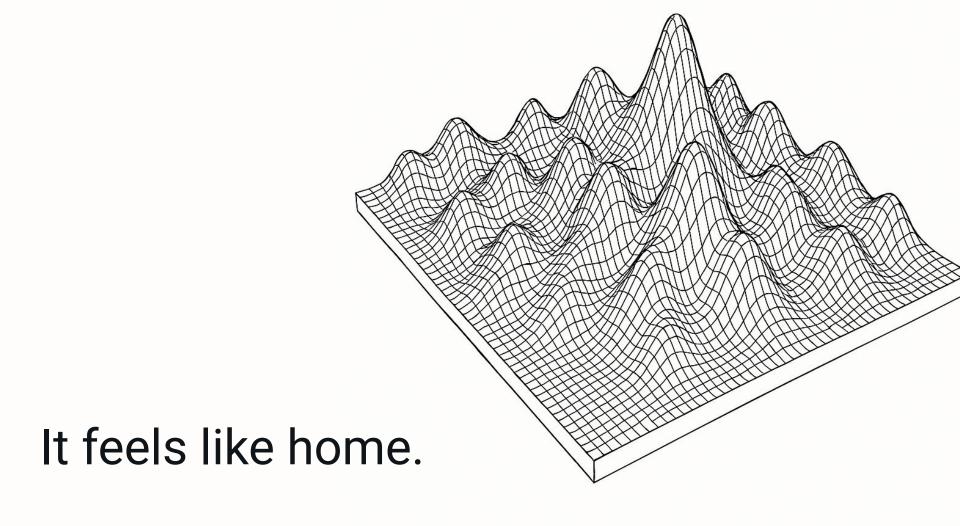




But meaningful sentences occupy a **tiny projection** of the multi-dimensional space of all probabilities.







dejan.ai