

SEO Insights with Google's Gemini Embeddings (A Free Tool Inside)

Metehan Yesilyurt

AI Search & Information Retrieval Researcher · metehan.ai

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Today, I wanted to share a little behind-the-scenes look at a project I've been working on lately—a mini AI SEO crawler leveraging Google's Gemini latest embedding model. It's been an exciting journey combining AI technology with practical applications to make my day-to-day tasks more efficient and insightful.

Access tool here: <https://embeddingsv3.vercel.app>^[1]

You might wonder, why embeddings? Embeddings essentially capture the semantic meaning and context behind the text, translating words into numerical representations. This helps in many powerful applications, from efficient retrieval in databases and recommendation systems to advanced text classification and clustering. Imagine effortlessly finding relevant legal documents, accurately categorizing sentiment in customer feedback, or enhancing content generation with contextually relevant data—that's the power embeddings bring to the table.

[caption id="attachment_178" align="aligncenter" width="2424"] This isn't my tool's output. I copied and pasted the whole output into the Claude, I asked it to review this data and create some charts.[/caption]

Specifically, Google's Gemini Embedding model caught my attention because of its impressive features. With an increased input token limit of 8K tokens, it allows embedding much larger chunks of data, significantly improving context and understanding. Its high-dimensional output of 3K dimensions provides richer, more detailed semantic representations compared to previous models. Plus, the innovative Matryoshka Representation Learning (MRL) lets me scale embeddings according to storage and computational needs, optimizing cost and performance.

Another highlight is the expanded language support—Gemini now handles over 100 languages, doubling previous capacities. This unified model not only streamlines workflows but also delivers superior quality across various tasks like multilingual text handling and code embedding.

The beauty of this project has been in discovering how these advanced embeddings can revolutionize even routine tasks. Whether identifying duplicate web content, enhancing search intent alignment, or automating topical categorization, each new application feels like unlocking a small treasure.

Exploring this model in its early experimental phase has been rewarding, providing insights that genuinely elevate the quality of my outputs and efficiency of my workflows.

What exciting technologies or tools have you been exploring recently? I'd love to hear about your experiences and discoveries!

Gemini embeddings are a free AEO diagnostic. They show whether your content sits near the queries that drive AI citations in ChatGPT, Perplexity and Gemini. Answer engine optimization without embedding checks is half done.

REFERENCES & SOURCES

[1] <https://embeddingsv3.vercel.app> — <https://embeddingsv3.vercel.app>