

(Artificial Intelligence)

357

(Building Science)







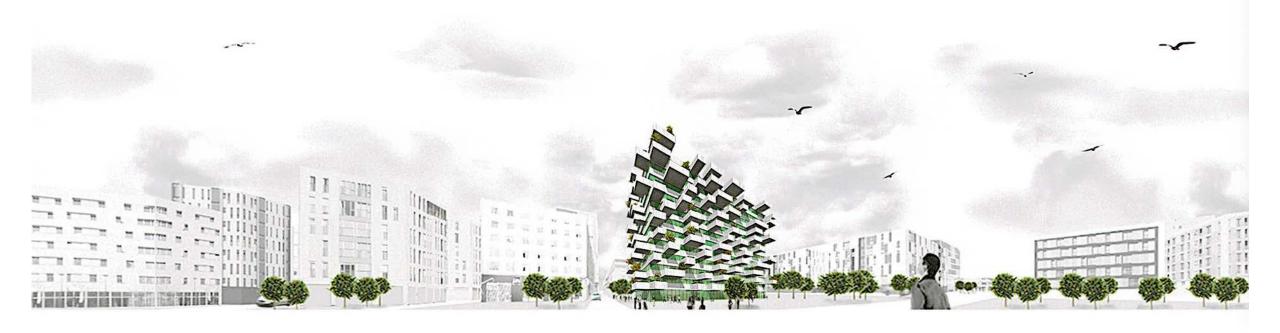
Design better buildings faster with Al

Al-Powered Building Design

ARCHITECHTURES is a generative Al-powered building design platform to help design optimal residential developments in minutes, rather than months.

https://architechtures.com/en

7 Days Free Trial



Al Architecture Generator in Real-time



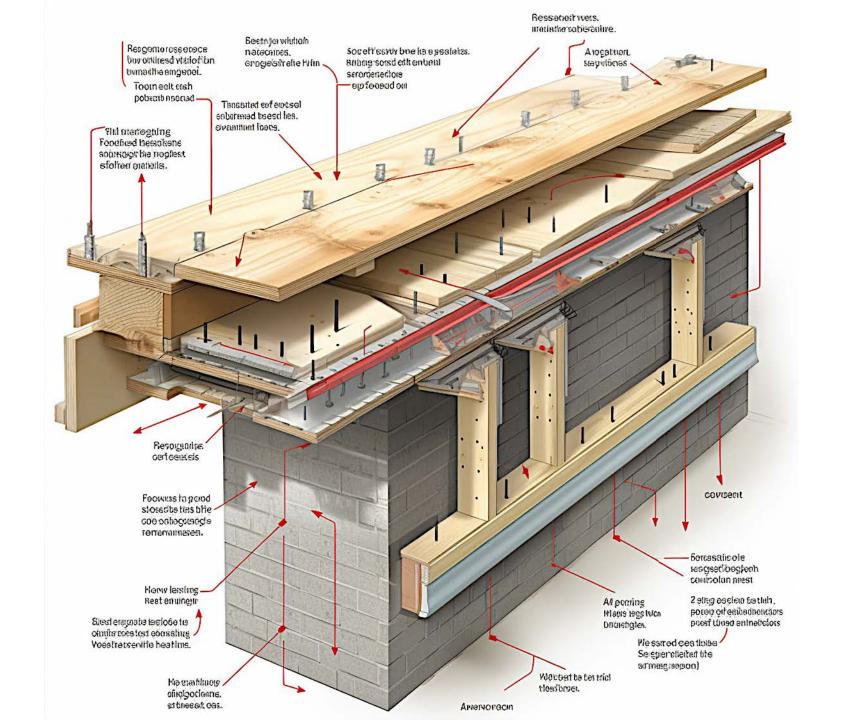
Generative Artificial Intelligence can be used to produce images, including:

- -Cat pictures
- -Floor plans
- -Enclosure details



An hyperrealistic algorithm-generated cat (all images courtesy This Cat Does Not Exist)

Generated 2024 by David T Fortin, Architect

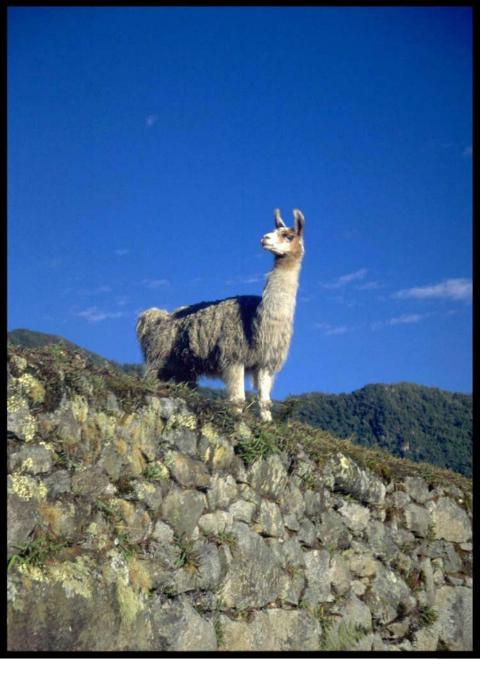


Generated 2024 by David T Fortin, Architect

Over to Dr Bob....



Robert Bowerman, Ph.D., P.Eng. Principal, RLMS.AI

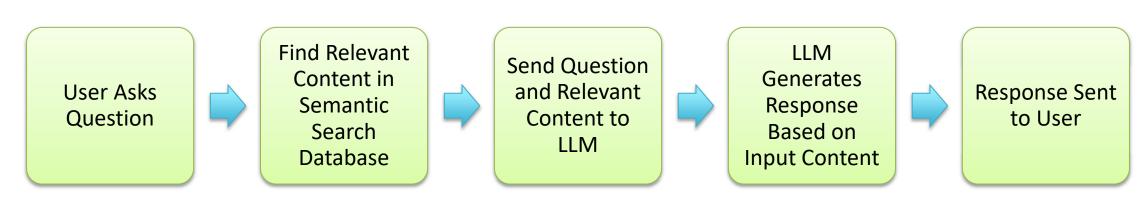


What are Generative Als and Large Language Models ???

- Generative Al
 - Models that create new content e.g., audio, images, text, or videos
- Large Language Model
 - Large AI model with billions of parameters
 - Trained on trillions of words on input
 - Works by "next word prediction" based on user input and previously generated text
 - Very clever version of predictive text algorithm (like on your smart phone keyboard)
- On its own, an LLM can produce text but has no domain expertise

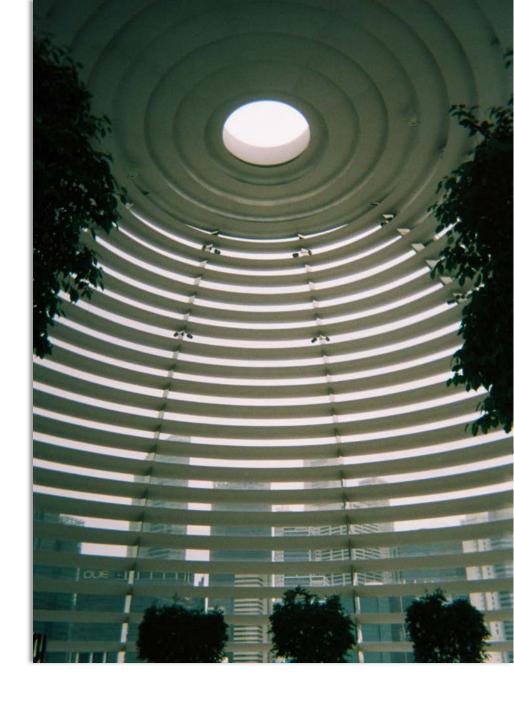
How can you add domain expertise ???

- Retrieval-Augmented Generation (RAG) is a technique to provide domain expertise to a large language model
- For a given question, it searches a semantic database and finds relevant content
- The LLM answers the question with the relevant content given as context



Why BuildingScience.com???

- Extensive and curated repository
 - Large set of high-quality, objective building science information
 - Clear and consistent point of view
- Opportunity to extend reach
 - Help mandate of promoting the design and construction of buildings that are healthier, less energy-consuming, and more durable and economical





https://bscassistant.ai