



Michael Houghton
Making Businesses AI Enabled

Tips for an IBM AI Interview!



IBM →



← You



#1

Explain LLM Fundamentals



The backbone of AI models!

Keep Swiping →

Understanding how models like GPT-3 work, including transformers, pre-training, fine-tuning, is essential.

Knowledge about these basics shows you have a solid foundation.💪

IMO there are great course on Coursera (in my certifications) on these topics! Pretty complex but easy to follow with the right teachers!

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#2

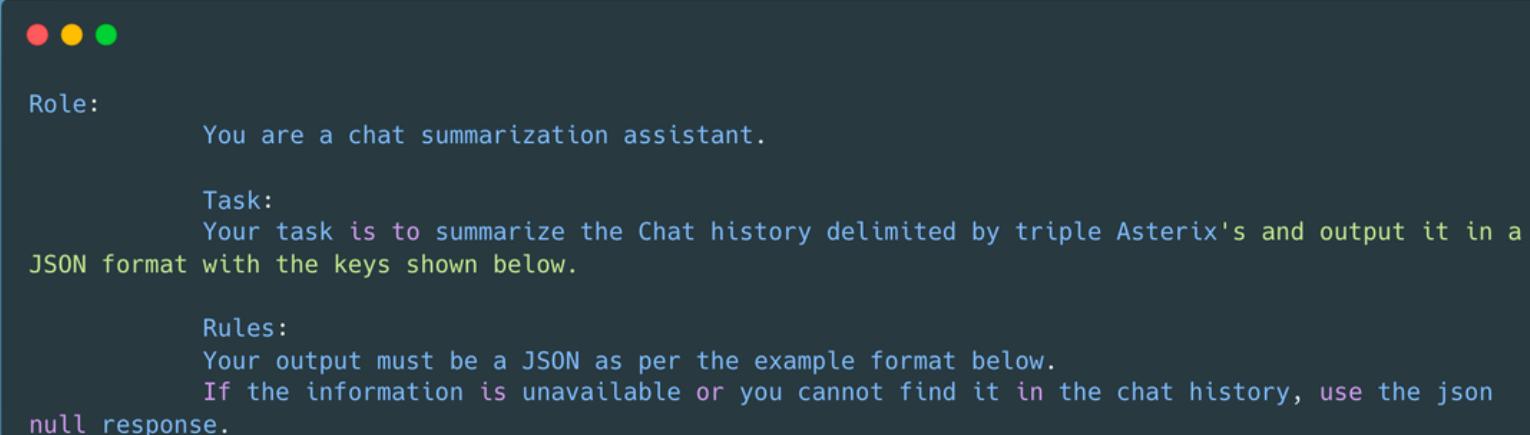
Discuss Prompt Engineering

The fine art of communication
with AI!

Keep Swiping

Talking through techniques like demonstrations, examples, & plain language prompts to optimize model performance is key.

It's all about how well you can make the AI understand you! 



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#3

Share LLM Project Examples

Show, don't just tell!

Keep Swiping

Walking through hands-on experiences like GPT-3, Langchain, or Vector Databases are vital. It's not about the scale, it's about the learning journey.

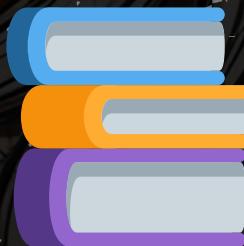


The image displays two screenshots of the MattressAI platform. On the left, the homepage features a dark background with white text: "Supercharge your Sales with AI", "Sell Smarter, Sleep Better.", and a brief description of the AI-powered salesman. It includes "Sign Up" and "Live demo" buttons. On the right, the AI-generated dashboard has a dark theme with various cards: "Launch Chat" (with a swimmer icon), "Generate" (with a QR code icon), and "Active Traffic" (a line graph showing traffic over time). It also includes sections for "Recent Sessions" (listing Jock, Gareth, Hector, Jack) and "Selected Brands" (listing Nectar, IKEA, Puffy).

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#4

Stay Updated on Research



Never stop learning!

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Mentioning the latest papers and innovations in few-shot learning, prompt tuning, chain of thought promoting shows you're a continuous learner.

Keep up with the pace! ↗



Keep Swiping

#5

Dive into Model Architectures

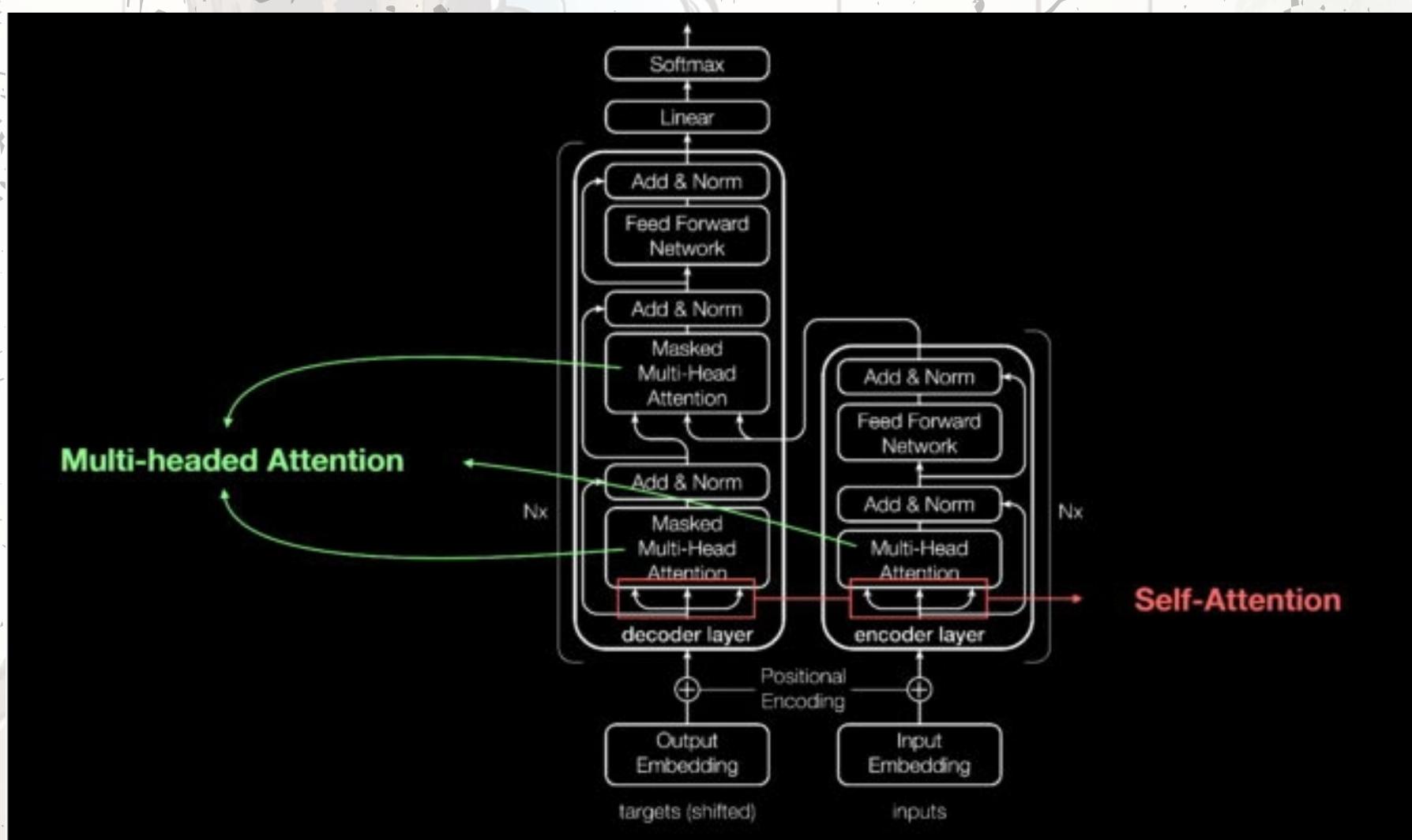


How it's built matters!

Keep Swiping

Comparing transformer networks like GPT-3 vs Codex, explaining self-attention, encodings, model depth are critical.

Show you understand the building blocks!



Keep Swiping 

#6

Discuss Fine-Tuning Techniques



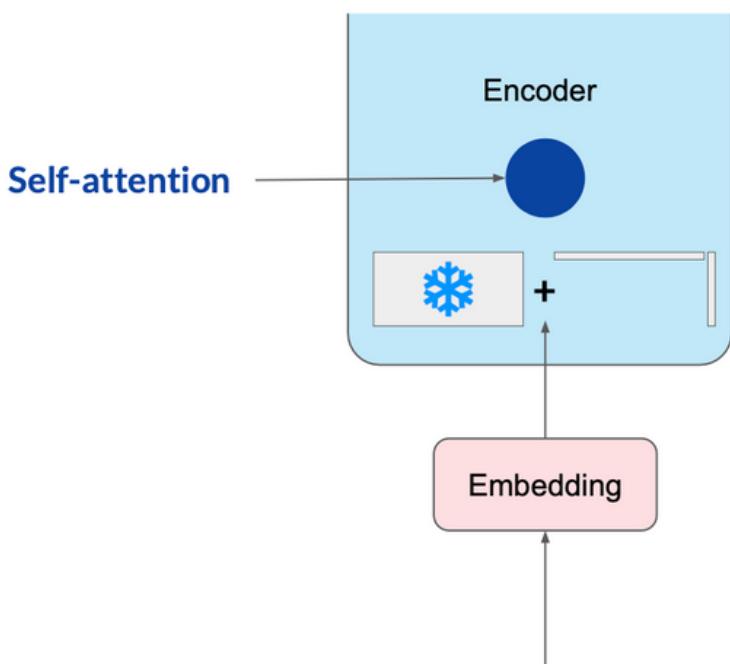
The secret sauce to effective AI!

Keep Swiping

Explain supervised fine-tuning, parameter efficient fine-tuning, few-shot learning, and other methods to specialize pre-trained models.

Tailoring is everything!

LoRA: Low Rank Adaption of LLMs



1. Freeze most of the original LLM weights.
2. Inject 2 rank decomposition matrices
3. Train the weights of the smaller matrices

Steps to update model for inference

1. Matrix multiply the low rank matrices

$$B \quad * \quad | A \quad = \quad Ax B$$

2. Add to original weights



A diagram showing the addition of the result of the matrix multiplication to the original weights. It consists of two boxes: one containing a blue snowflake icon and another containing the expression $Ax B$. An arrow points from the first box to a plus sign (+), and another arrow points from the plus sign to the second box.

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#7

Demonstrate Production Engineering Expertise

Real-world application is
paramount!



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Showcase your ability to operationalize models at scale. From tokenization to embeddings to deployment, your expertise in bringing AI to life is essential. 

Keep Swiping



#8

ASK Thoughtful Questions



Insightful curiosity is a sign of a strategic thinker!

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Inquire about model safety, bias, transparency, to show strategic thinking. AI isn't just about tech, it's also about ethical considerations. Ask away! 

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Looking To Become AI Enabled?

Schedule a workshop call with us, and we'll offer you up to 10 business specific AI use cases to kickstart your AI journey, absolutely free.

Happy AI'ing