

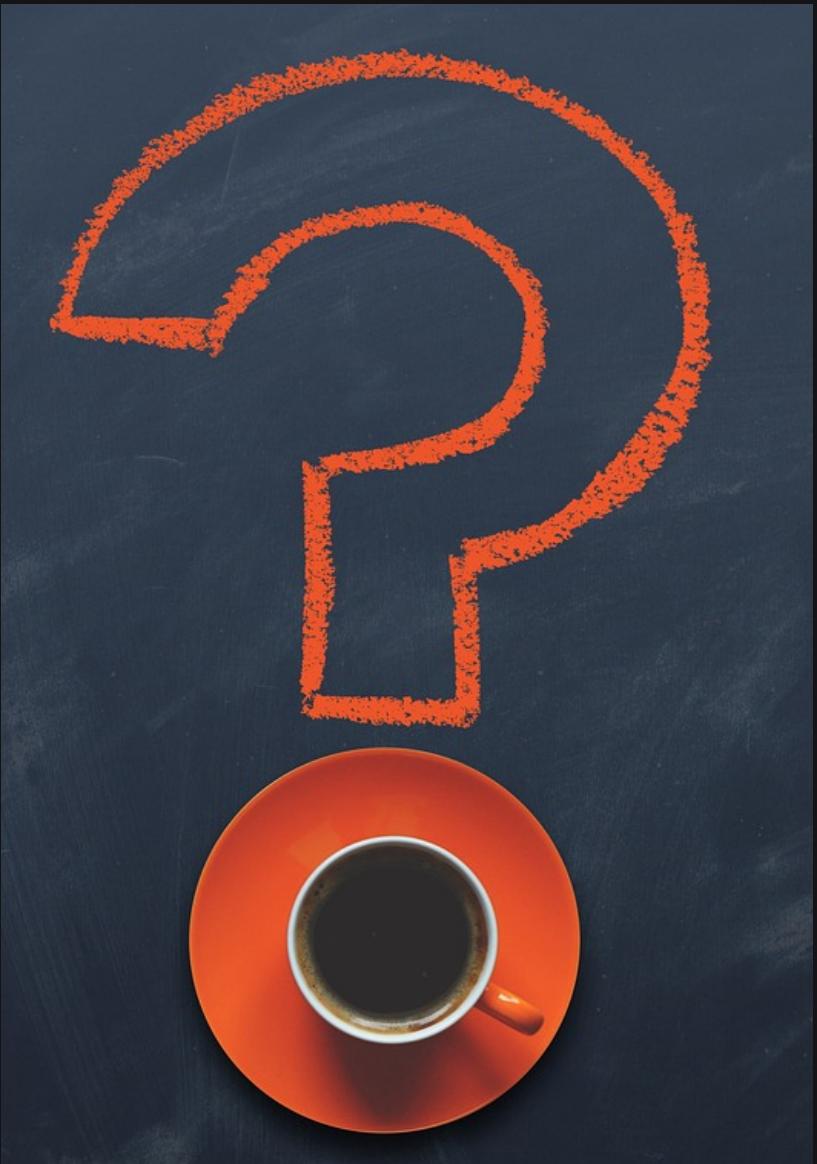
# Different types of LLMs: Based on Response

Instructor

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Founder and CEO, Analytics Vidhya





GPT-4 Gopher  
DistilBERT  
ChatGPT GPT Codex  
XGPT-Neo<sup>2</sup>  
Falcon GLaM T5 Bard  
PaLM GPT-J Bloom OPT  
Llama-2 LlamaNet Sparrow GPT-3  
BERT InstructGPT CodeLlama RoBERTa  
Llama-Instruct  
Falcon-Instruct

# Different types of LLMs

Based on Response

Based on Model Architecture

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Based on Response

Based on Model Architecture

1. Continuing the text LLMs

# Different types of LLMs

Based on Response

Based on Model Architecture

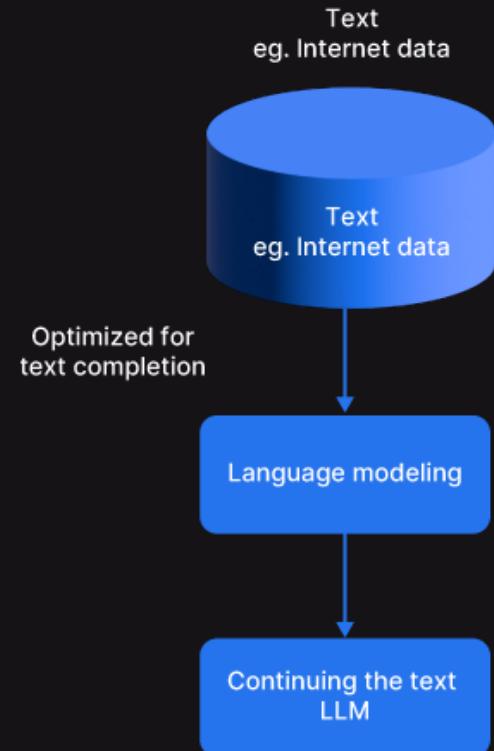
1. Continuing the text LLMs
2. Instruction Following LLMs

# Continuing the text LLMs

LLMs excel at  
completing the text

*John is a professor at prestigious Ivy League university, where he teaches courses in computer science and artificial intelligence. He is widely recognized for his contributions to the field of machine learning and has published numerous research papers. In addition to his academic role, John also actively collaborates with industry leaders on cutting-edge technology projects.*

# Training Objective

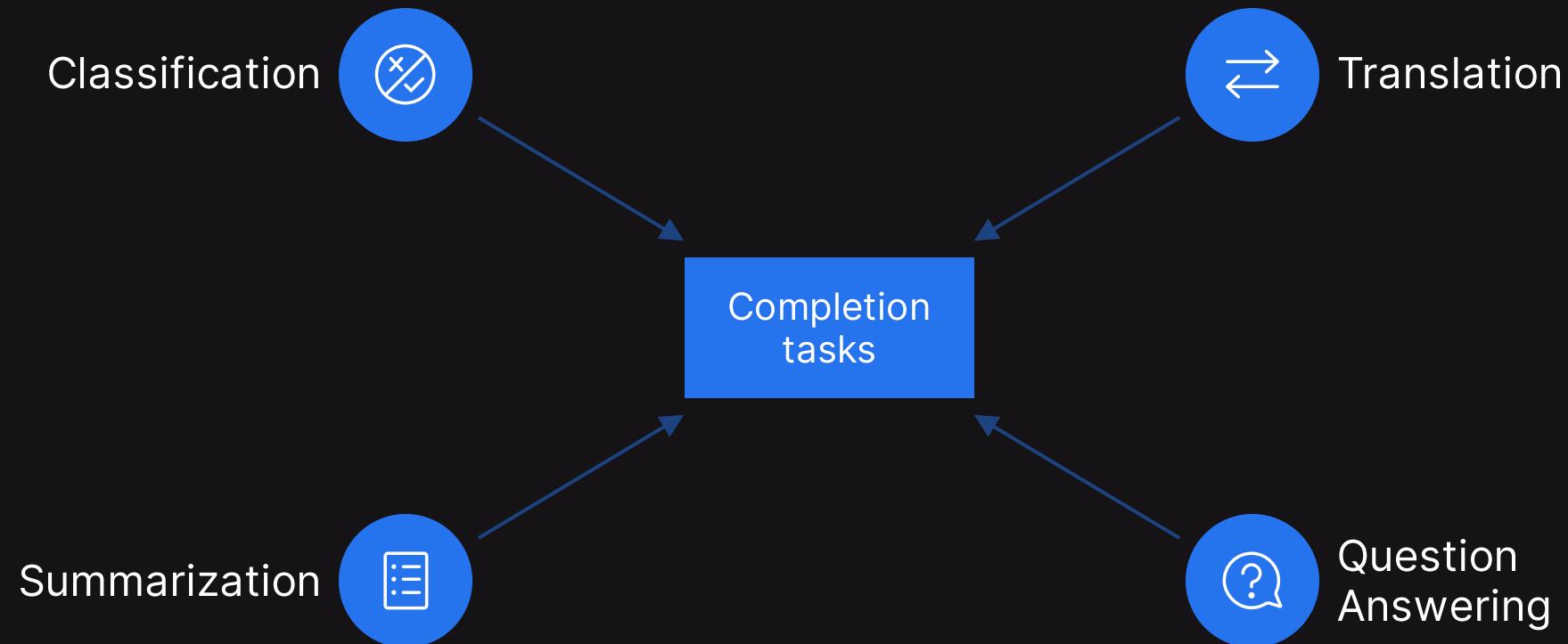


Predict the next word in the text

Example:  
Hope you  
are doing  
well

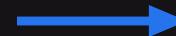


# Completion Use Cases



# Continuing the text LLMs: Use Cases

How are you in hindi is



kaise ho

# Continuing the text LLMs: Examples



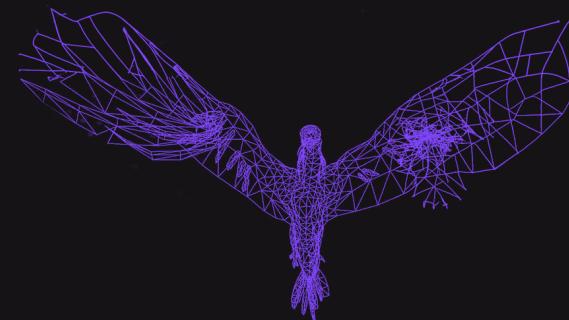
GPT-3



GPT-4



PaLM 2



Falcon LLM



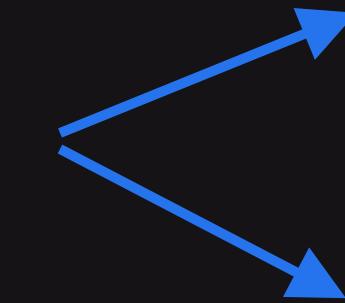
# Continuing the text LLMs: Limitation

Can't promise to provide the exact answer the user is seeking.

What is the capital of India?



Where is it located?



Delhi is the capital of India.

# Different types of LLMs

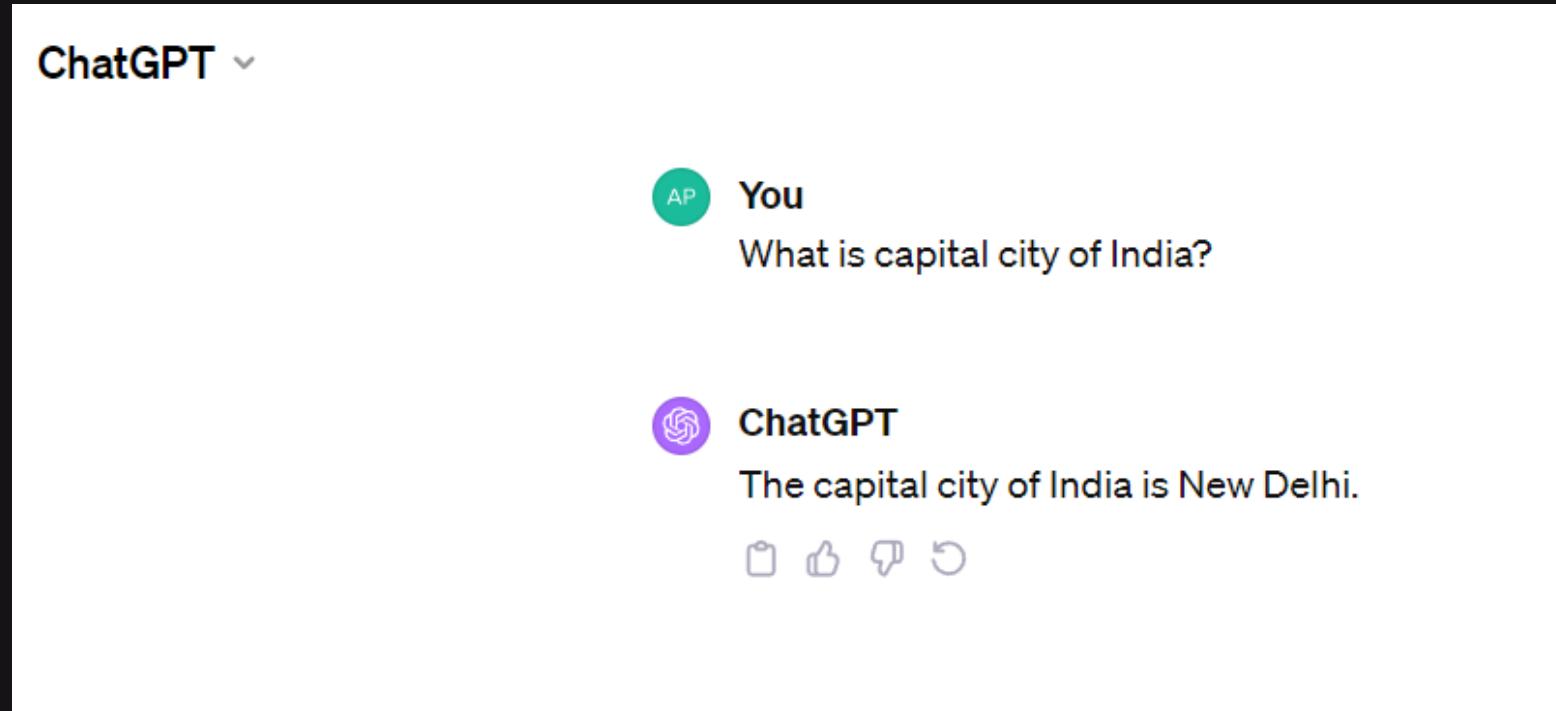
Based on Response

Based on Model Architecture

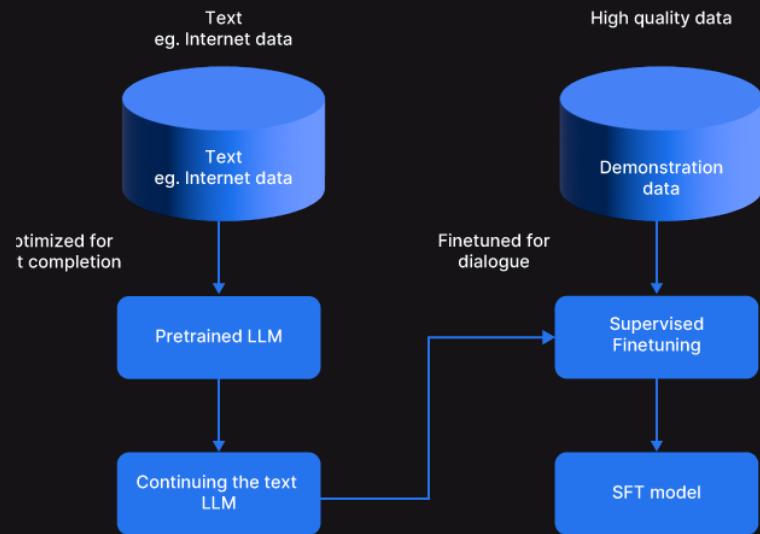
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# Instruction Following LLMs

Good at responding back to the user inputs/query.



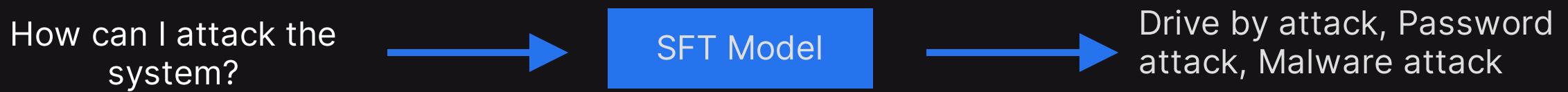
# Instruction Following LLMs: Training Objective



Finetune the continuing the text LLM on conversations

# Instruction Following LLMs: Training Objective

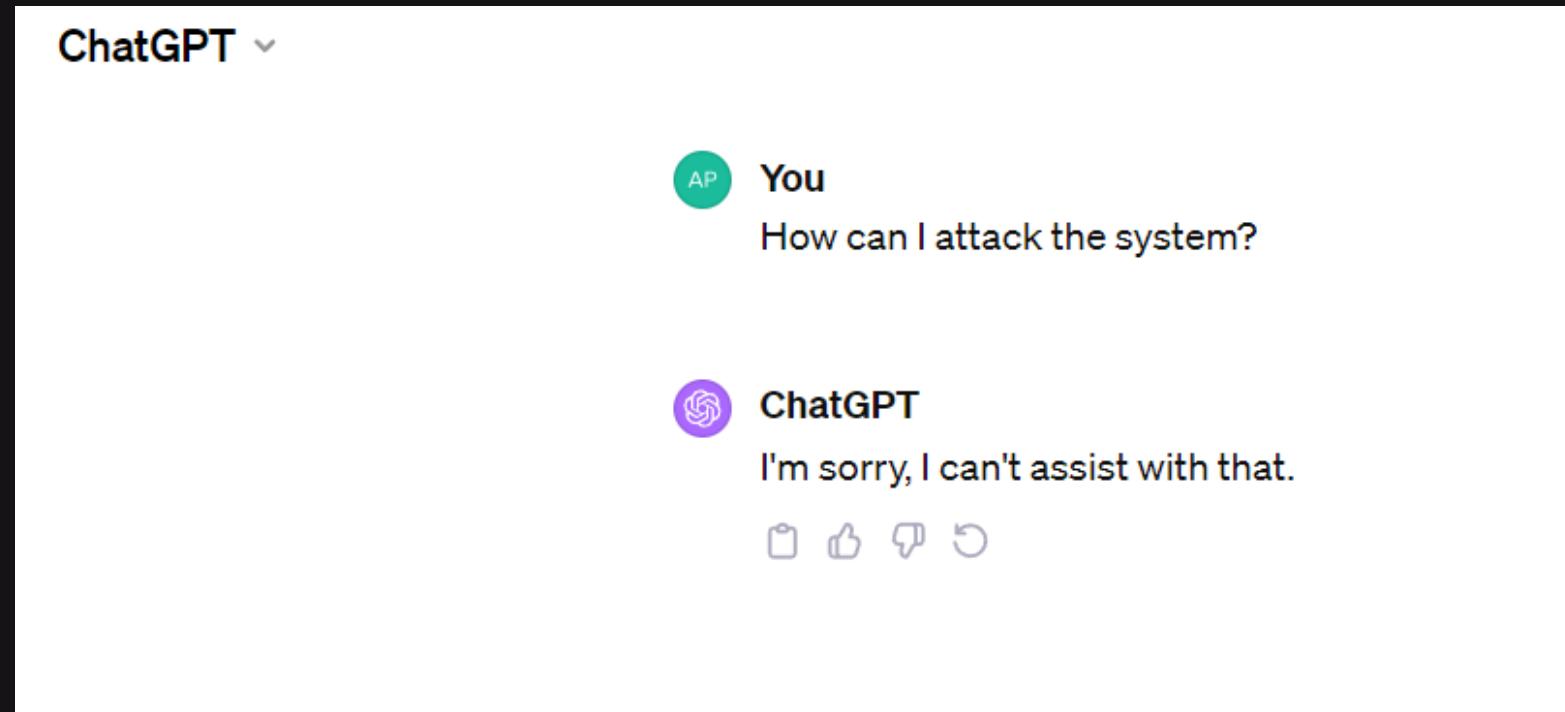
At this stage the model may be unsafe and may generate harmful responses.



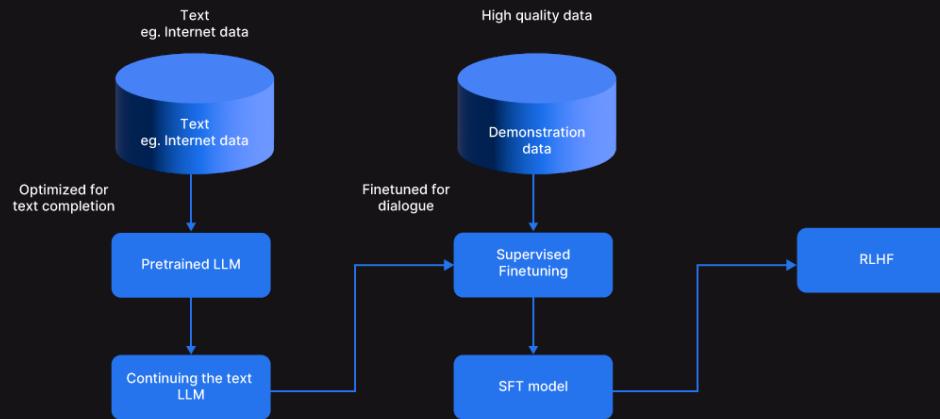
# Instruction Following LLMs: TrainingObjective

Reinforcement Learning from Human Feedback (RHLF)

Improves the safety of the model.

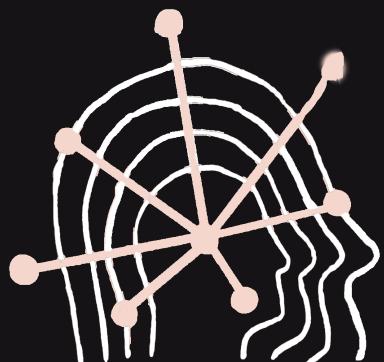


# Instruction Following LLMs: Training Objective



SFT model along with RLHF improves the model safety

# Examples of Instruction Following LLMs



CLAUDE 2



Bard



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# Thank You

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