

## Present and Future: Current Trends in LLMs



### Multimodal

Text, image, audio, video integration



### Mixture of Experts

Sparse activation for efficiency



### Long Context

100K+ tokens processing



### Better Reasoning

Math, logic, commonsense



### Retrieval Augmentation

Combining LMs with knowledge bases for accurate information



### Smaller Efficient Models

On-device and edge deployment capabilities



### Enhanced Capabilities

Improvements in mathematical reasoning, logical thinking, and commonsense understanding



### Context Processing

Processing 100K+ tokens enables handling entire books and documents



### Specialized Domain Models

Medical, Legal, Scientific, Finance

Engineering



### AGI Considerations

Focus on capabilities, safety, and alignment as we approach AGI