

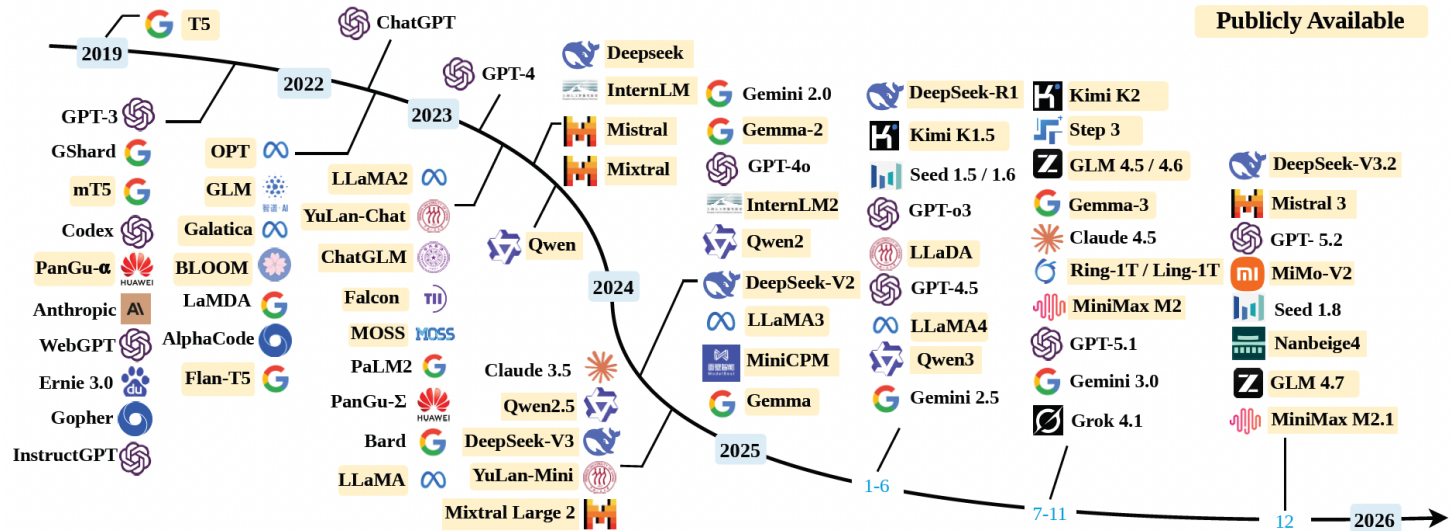
A Survey of Large Language Models

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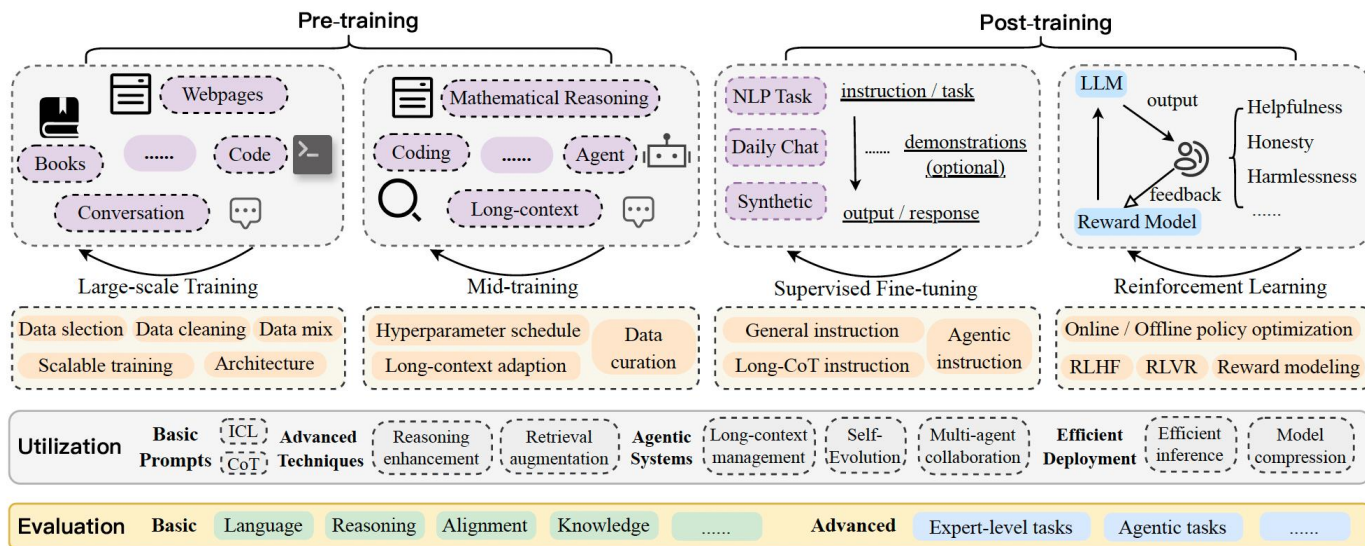
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Problems & Motivations

- Numerous LLMs emerging in recent years:

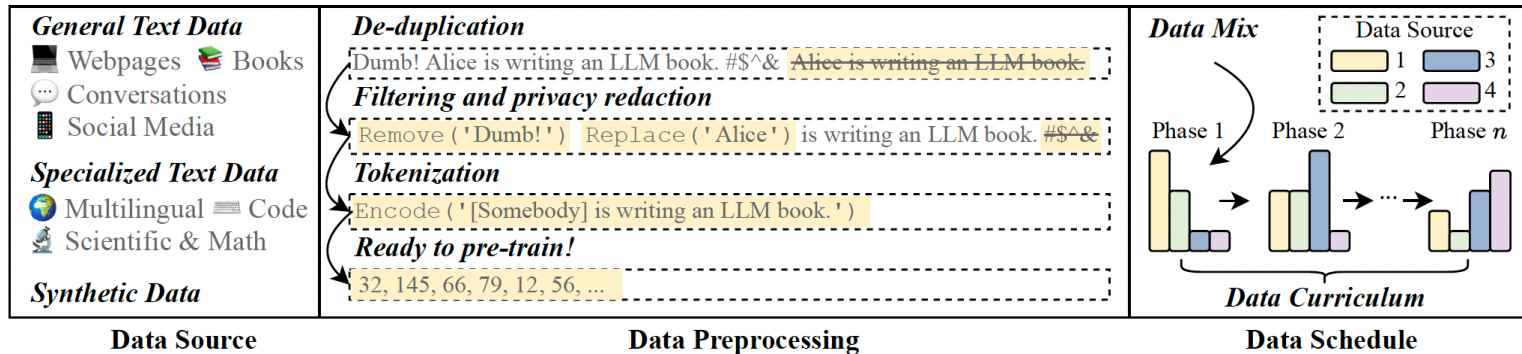


- Review recent advancements in LLM techniques

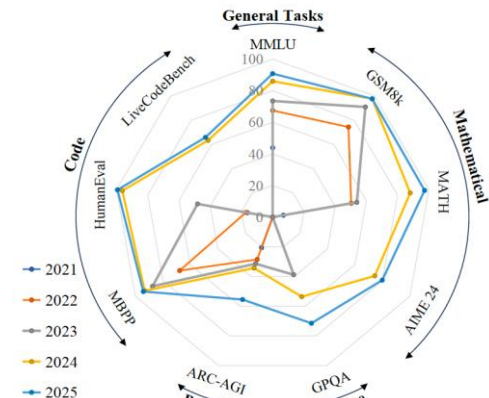
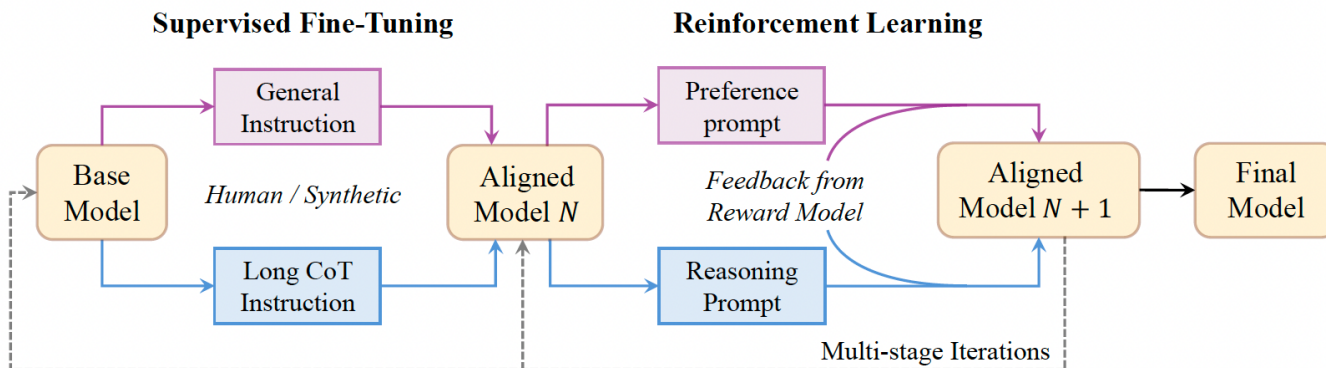


Main Contributions

- A structured overview of four critical stages of the LLM lifecycle:
 - **Pre-training** for developing capable base model;



- **Post-training** for adapting models for alignment and application;



- **Utilization and Evaluation** for deployment and downstream use;