

# Generative AI Life-Cycle Tools and Technologies

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This market analyzes the GenAI initiative stages from problem definition to pinpointing the challenge/opportunity that the GenAI application will tackle to data investigation to data preparation and from development to evaluation and conclude with monitoring and improvement, where ongoing feedback refines the AI application, ensuring its relevance and performance in the real world.

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## MARKETS AND SUBJECTS ANALYZED

- Data Integration for GenAI Models
  - Data Preparation for GenAI Models
  - Building Specialized Models
  - Model Evaluation
  - Model Selection
  - Open Source Models
  - Model Governance for Fairness and Bias
  - Model Tuning
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## CORE RESEARCH

- Market Glance
  - Market Perspective
  - Buyer Case Studies
  - Market Share
  - Market Forecast
  - Developer Surveys
  - Model Pipelines
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In addition to the insight provided in this service, IDC may conduct research on specific topics or emerging market segments via research offerings that require additional IDC funding and client investment. To learn more about the analysts and published research, please visit: [Generative AI Life-Cycle Tools and Technologies](#).

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## KEY QUESTIONS ANSWERED

1. What are the trends and opportunities for GenAI life-cycle management from experimentation to production technology offerings for vendors?
  2. How are MLOps and DevOps handled within the GenAI model life cycle?
  3. How do organizations select, choose, or build the correct GenAI models for their applications?
  4. How are vendor offerings in the GenAI Life Cycle Tools and Technologies market differentiated?
  5. What challenges do enterprises face in building and deploying GenAI models and solutions?
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## COMPANIES ANALYZED

This service reviews the strategies, market positioning, and future direction of several providers in the Generative AI Life-Cycle Tools and Technologies market, including:

Anthropic, AWS, Cohere, Databricks, Google, Hugging Face, IBM, Microsoft, Meta, and NVIDIA.