



# CDW Documentation

## Top 10 LLM Applications in the Cloud

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# Top 10 LLM Applications in the Cloud

Here are the **top 10 LLM (Large Language Model) applications** that can be effectively built using **cloud AI platforms** like AWS, Azure, Google Cloud, or OpenAI APIs:

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## 1. Intelligent Chatbots & Virtual Assistants

- **Use case:** Customer support, internal helpdesks, conversational commerce.
  - **Why cloud AI?** Scales with usage, integrates with CRM and backend APIs.
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## 2. AI-Powered Search & Q&A Systems

- **Use case:** Semantic search for documents, knowledge bases, or internal wikis.
  - **Why cloud AI?** Uses LLMs + vector search (e.g., Amazon Bedrock + OpenSearch, Azure AI Search).
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## 3. Document Automation (Extraction, Summarization, Classification)

- **Use case:** Legal, financial, or HR document processing.
  - **Why cloud AI?** Combine LLMs with OCR, translation, and workflow tools.
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## 4. Code Generation & Review Tools

- **Use case:** Developer productivity (e.g., code snippets, comments, documentation).
  - **Why cloud AI?** Use fine-tuned LLMs like CodeWhisperer or Copilot with cloud IDEs.
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## 5. Content Creation & Editing

- **Use case:** Marketing copy, SEO blogs, social media posts, translations.
  - **Why cloud AI?** Scalable content generation with prompt templates and human-in-the-loop review.
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## 6. Voice Interfaces & Transcription Services

- **Use case:** Real-time meeting assistants, call summaries, voice-to-text tools.
  - **Why cloud AI?** Integrate speech APIs (e.g., Amazon Transcribe, Azure Speech) with LLMs.
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## 7. Personalized Recommendations & Summaries

- **Use case:** News digests, product recaps, or personalized learning content.
  - **Why cloud AI?** Combine user context with LLMs to tailor content delivery.
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## 8. AI Tutors & Educational Tools

- **Use case:** Interactive lessons, question generation, real-time feedback.
  - **Why cloud AI?** Delivers adaptive learning through scalable infrastructure.
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## 9. Compliance & Risk Analysis

- **Use case:** Analyze contracts, flag compliance risks, summarize legal docs.
  - **Why cloud AI?** Combine LLMs with RAG (retrieval-augmented generation) and audit logs.
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## 10. Multi-language Translation & Localization Assistants

- **Use case:** Real-time translation, content localization, multilingual chat support.
- **Why cloud AI?** Use LLMs with translation models (e.g., Amazon Translate, Azure Translator).