

Google Generative AI Leader Certification Cheat sheet

GAIL Certification related APIs, Models, Products, and Services, with explanations capped at 10 words and sorted alphabetically within each category.

APIs: These are the programmatic interfaces that allow you to integrate and leverage Google's AI capabilities within your own applications.

API	Explanation
Cloud Video Intelligence API	Extracts rich metadata from videos, including objects and actions.
Cloud Vision API	Analyzes images for content understanding, object, and face detection.
Natural Language API	Analyzes text for sentiment, entities, and syntax understanding.
RAG APIs	APIs for grounding generative models with external knowledge data.
Speech-to-Text API	Converts spoken audio into text for various applications.
Text-to-Speech API	Synthesizes natural-sounding human-like speech from text.
Translation API	Translates text between numerous languages with high accuracy.

Models: These are the foundational AI models developed by Google, each designed for specific generative tasks like text, image, or video creation.

Models	Explanation
Chirp	Next-gen universal speech model for high-accuracy speech-to-text.
Gemma	Lightweight, open models for flexible deployment and fine-tuning.
Gemini	Google's most capable, multimodal models for complex reasoning.
Imagen	Text-to-image model for generating high-quality visual content.
Veo	State-of-the-art video generation model with advanced realism.
Vids	Large Multimodal Models for video understanding and editing workflows, used in Google Workspace

Products: These are the platforms, tools, and services that help you build, deploy, manage, and integrate generative AI solutions.

Google Product/Concept	Explanation
AI Applications	Pre-built solutions for common AI use cases and industries.
Agent Assist	Real-time AI assistance for human agents in conversations.
App Script	Extend Google Workspace, automate tasks, integrate AI functionality.
AppSheet	No-code platform to build applications leveraging generative AI.
BigQuery	Serverless, highly scalable, cost-effective cloud data warehouse.
CCaaS (Contact Center AI)	Cloud Contact Center as a Service for customer interactions.
Conversational Bot	AI-powered virtual agents for automated customer interactions.
Conversational Insights	Analyze conversations for trends, sentiment, and agent performance.
Dataflow	Serverless service for stream and batch data processing pipelines.
Document AI	Extracts structured data and insights from unstructured documents.
Gemini Advanced	Premium tier of Gemini with enhanced capabilities and access.

Gemini for Google Cloud	AI assistance across Google Cloud, coding, and operations.
Gemini in Google Workspace	Integrates generative AI features into Google Workspace applications.
Google Agentspace	AI agent hub for enterprise search and workflow automation.
Google AI Studio	Web-based tool for rapid prototyping and testing of generative AI.
Google Cloud Storage	Scalable, durable, and secure object storage for large data.
Google Search	Leverages real-time external information for improved model grounding.
Google Workspace	Suite of cloud-based productivity and collaboration tools.
Model Garden	Discover, explore, and deploy Google's pre-trained foundation models.
NotebookLM	AI-powered research assistant for synthesizing information from documents.
Vertex AI	Unified ML platform for building, deploying, and managing AI models.
Vertex AI Search	Build Retrieval-Augmented Generation (RAG) powered search applications.
Vertex AI Studio	Interface within Vertex AI for prompt design and model tuning.

Services / Frameworks: These include broader guidelines and supporting services essential for responsible and effective AI deployment.	
Google Product/Concept	Explanation
Secure AI Framework (SAIF)	Guidelines and tools for building and deploying responsible AI.

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Disclaimer: This cheat sheet provides a high-level overview and is not an exhaustive list of all products or models that might be covered in the Google Generative AI Leader certification. For detailed descriptions and a complete learning path, please refer to the official Google Cloud certification guides and documentation.