



Generative AI Notebook Tutorials

October 2025 Edition



Summary: This document lists new Google Cloud Generative AI notebook tutorials published in **October 2025**. The tutorials cover a wide range of topics, from showcasing various applications of Gemini models, to introducing significant new capabilities.

Title	Categories	Description	Models	Source_url
Intro to Computer Use with Gemini	Gemini	Build a web automation agent using the Gemini Computer Use model.	gemini-2.5-computer-use-preview-10-2025	intro_computer_use.ipynb
Computer Use Demo App	Gemini	Build a web automation agent using the Gemini Computer Use model (app version)	gemini-2.5-computer-use-preview-10-2025	computer-use/web-agent
Supervised Fine-tuning Gemini 2.5 Flash for Predictive Maintenance	GeminiFine-Tuning	Supervised fine-tuning of Gemini 2.5 Flash on Vertex AI for predictive maintenance.	gemini-2.5-flash	sft_gemini_predictive_maintenance.ipynb
Get Started with Gemini Preference Optimization	Gemini	Fine-tune the Gemini model using preference optimization (DPO).	Gemini 2.5 Flash	tuning/dpo_gemini.ipynb
Evaluate images with predefined Gecko	GeminiEvals	Use the Vertex AI evaluation service to run Gecko for evaluating image generation quality.	Gemini Gecko	evaluate_images_with_predefined_gecko.ipynb
Evaluate videos with predefined Gecko	GeminiEvals	Evaluate video generation quality using the Vertex AI evaluation service with the predefined Gecko metric.	Gecko Gemini	evaluate_videos_with_predefined_gecko.ipynb
Semantic Analysis in BigQuery with AI Functions	GeminiBigQuery	Perform sophisticated AI-driven analysis directly within BigQuery using its powerful AI functions.	Gemini Gemini 2.5 Flash	bigquery_ai_operators.ipynb
Get started with Chirp 3 Transcription	Chirp	Use Google's Chirp 3 model for speech-to-text transcription.	Chirp 3	get_started_with_chirp_3_transcription.ipynb
Gen AI Agent Eval SDK (Colab 1 for UI)	Evals	Using the Gen AI Eval SDK to evaluate AI agents.		colab_1_for_agent_eval_UI_placeholder.ipynb
Building multi-agent systems with Vertex AI and Claude	ClaudeADKA2A	Build a multi-agent system using ADK, the Agent2Agent (A2A) protocol, and MCP with Vertex AI Agent Engine and Anthropic's Claude.	claude-sonnet-4-5@20250929 gemini-2.5-flash	tutorial_multi_agent_systems_on_vertexai_with_claude.ipynb
Evaluate Gemini Structured Output	GeminiEvals	This notebook evaluates and compares the performance of Gemini models for an information extraction task from scanned, handwritten order forms.	Gemini 2.0 Flash Gemini 2.5 Flash Gemini 2.5 Pro	evaluate_gemini_structured_output.ipynb

Get started with Sessions and Memory Bank for ADK agents in Cloud Run	GeminiADKAgent Engine	Building conversational agents with short-term and long-term memory using ADK, Vertex AI Agent Engine Sessions, and Memory Bank.	gemini-2.5-flash	get_started_with_memory_for_adk_in_cloud_run.ipynb
Get started with Sessions and Memory Bank for ADK agents in Google Kubernetes Engine	GeminiADKAgent Engine	Building and deploying ADK agents with short-term (Sessions) and long-term (Memory Bank) memory on Google Kubernetes Engine.	gemini-2.5-flash	get_started_with_memory_for_adk_in_gke.ipynb
Veo 3 Advanced Controls	Veo	Use Google's Veo 3.1 model on Vertex AI for advanced video generation.	Veo 3 Veo 3.1 veo-3.1-generative-preview	veo3_advanced_controls.ipynb
Veo 3 Reference to Video	Veo	Use Google's Veo 3.1 model on Vertex AI to generate videos.	Veo 3 Veo 3.1 veo-3.1-generative-preview	veo3_reference_to_video.ipynb
Get started with Agent Engine Terraform Deployment	ADKAgent Engine	Deploying AI agents on Vertex AI Agent Engine using Terraform.	gemini-2.5-flash	tutorial_get_started_with_agent_engine_terraform_deployment.ipynb
Deploying Multiple LoRA Adapters on Vertex AI with vLLM	Model Garden	This notebook guides users through deploying multiple LoRA adapters on Google Cloud's Vertex AI using vLLM.	gemma-2-2b-it gemma-2-2b-it-lora-sql gemma-2-2b-it-lora-magicoder LoRA	get_started_with_vllm_lora_serving_on_vertex_ai.ipynb
Get started with Model Garden Terraform Deployment	Gemini	Deploy open models from Vertex AI Model Garden and Hugging Face Hub using Terraform.	Gemma Llama PaliGemma Qwen	get_started_with_model_garden_terraform_deployment.ipynb
Using Gen AI Evaluation SDK for Google Observability Gen AI multi-modal datasets	Evals	Using the Vertex AI SDK Gen AI evaluation service for multimodal content stored in Google Observability.	Generative AI models (evaluated via Vertex AI SDK)	evaluating_observability_datasets.ipynb
Tutorial for Running Prompt Management and Evaluation	Evals	This tutorial provides a comprehensive guide to prompt engineering, covering the entire lifecycle from creation to evaluation and optimization.	gemini-2.0-flash-001	prompt-management-tutorial.ipynb
Vertex AI Model Garden - DeepSeek-V3.2 Deployment	Model Garden	Deploy the DeepSeek-V3.2 open model on Google Cloud Vertex AI.	DeepSeek-V3.2 vLLM	model_garden_pytorch_deepseek_v3_2_deployment.ipynb
AI-Assisted Data Science Workflows in BigQuery	BigQuery	A multimodal data science workflow in BigQuery.	gemini-2.5-flash-multimodal-embedding@001	ai-assisted-data-science/ai-assisted-data-science.ipynb
Remote Sensing Model Deployment and Inference on Vertex AI	Model Garden	Deploy remote sensing models (MaMMUT and OWL-ViT) to Vertex AI endpoints.	OWLVIT MAMMUT	model_garden_remote_sensing_deployment.ipynb
Vertex AI Model Garden - GPT OSS (Deployment on G4)	Model Garden	Deploying and serving GPT OSS models on Google Cloud's Vertex AI using vLLM on G4 machines with NVIDIA RTX Pro 6000 GPUs.	GPT OSS gpt-oss-20b vLLM	model_garden_pytorch_gpt_oss_g4_deployment.ipynb

Vertex AI Model Garden - Qwen3-VL (Deployment)	Model Garden	Deploy a Qwen 3-VL open model on Google Cloud Vertex AI.	Qwen3-VL vLLM	model_garden_pytorch_qwen3_vl.ipynb
Vertex AI Model Garden - Qwen3 (Deployment)	Model Garden	Deploy a Qwen 3 open model on Google Cloud Vertex AI using a vLLM TPU container.	Qwen 3 vLLM	model_garden_vllm_tpu_qwen3_deployment.ipynb
Getting Started with `virtueai` Models	Model Garden	Deploy and serve `virtueai` models, specifically `virtueguard-text-lite` , on Google Cloud Vertex AI.	virtueai virtueguard-text-lite	virtueai_intro.ipynb
Vertex AI Model Garden - Qwen Image & Qwen Image Edit	Model Garden	Deploying the Qwen Image and Qwen Image Edit models on Vertex AI for online prediction.	Qwen Image Edit 2509	model_garden_pytorch_qwen_image.ipynb

References

- [September 2025 Edition](#)
- [August 2025 Edition](#)