

Startup School: Gen AI - list of recommended labs and notebooks

	Class	Labs covered	Notebooks covered
		Labs can be completed in Cloud Skills Boost platform, more instructions here	Notebooks can only be run using your own Cloud environment, more instructions here
1	Current state of Generative AI	Getting Started with the Vertex AI Gemini API and Python SDK Multimodality with Gemini	n/a
	Applications of Generative AI for your business	Introduction to Generative AI Learning Path	n/a
2	Exploring prompt engineering	n/a	Notebook: Intro Gemini Notebook: Chain of Thought & React Notebook: Safety ratings & thresholds
	Image generation, editing, custom styling and beyond	n/a	Notebook: Create High Quality Visual Assets with Imagen and Gemini
3	Embeddings, vector databases	n/a	Notebook: Getting Started with Text Embeddings + Vertex AI Vector Search
	Code generation, completion, chat	n/a	Notebooks: Code Generation
4	Intro to RAG architectures, including Vertex AI Search	Integrate Search in Applications using Vertex AI Search	Notebook: Multimodal Retrieval Augmented Generation (RAG) using Vertex AI Gemini API
	Building enterprise chat apps using GenAI	n/a	CodeLab: Create a Generative Chat App with Vertex AI Conversation CodeLab: Increase intent coverage and handle errors gracefully with generative fallback CodeLab: Informed decision making using Dialogflow CX generators and data stores
5	Deploying and hosting apps in the cloud	n/a	Demo App GitHub Repository - sample applications
	Tuning & RLHF	n/a	Notebook: Tuning and deploy a foundation model Notebook: Vertex AI LLM Reinforcement Learning from Human Feedback
6	MLOps for Gen AI	n/a	Blogpost Notebook: Evaluate LLMs with AutoSxS Model Eval
	Application Development with Duet AI	Course and Lab: Duet AI for Application Development	n/a

Notebook Instructions

If our speakers cover a Notebook in class, you'll need to use Google Colab or AI Vertex Workbench to run these, which will require you to use your own Cloud Console. This may have billable components, however we have [a Free Trial with \\$300 in credits](#) or our [Cloud Program for startups](#) which both offer Cloud credits that you can use to run these Notebooks.

[This link should help you set up](#) your first Google Cloud Project and set up an environment for Notebook.

Our GitHub repository for GenAI notebooks is available [here](#).

Labs Instructions

Remember to [follow these steps](#) to redeem your credits in Cloud Skills Boost.

Paste this link when you are prompted for using a specific URL (and remember about Incognito Mode): https://www.cloudskillsboost.google/catalog_lab/1281?qlcampaign=1b-strsc-90