

# Google's AI Studio - Introduction

Ohhhh Boy! This one is fun! Today, we will be looking at AI Studio, a Google product, sort of a user interface, for the Gemini AI platform.

In this demo, I will be using my microphone to interact with Gemini in real-time. I'll have it observe, analyze, and diagnose a set of scoring rubrics, it will guide me through using the maintenance website to submit a work request, and I will also have it analyze a very small amount of code.

**Note:** this is the first time I've ever used this tool. I wanted you to see the process, whether it was simple or a struggle. I'm basically playing around, and I REALLY hope this helps you see how approachable this technology is.

## Quick Click-byClick to get started

- Go to <https://aistudio.google.com>
- Read and accept the license agreement

\*Click on the "Stream Realtime" option in the menu

[image](#)

[image315×558 19.5 KB](#)

\*Click on "Share your screen"

[image](#)

[image937×708 32.2 KB](#)

\*Grant any microphone/webcam access you are prompted for

\*Choose the screen you want to share

\*Click on share and begin speaking

This tech tip is a video because it is difficult to present in any other way, but, out of respect for your time (and to use more AI tools), I've also used [NotebookLM](#) to provide some audio and text resources, starting with this video summary:

This video demonstrates Google AI Studio's screen-sharing capabilities, showcasing its real-time interaction with Gemini. The presenter uses AI Studio to analyze student work, providing feedback on a complex rubric for a drumline audition. The AI identifies common student weaknesses and suggests improvement strategies, demonstrating its utility in grading and providing feedback. Furthermore, the presenter illustrates how AI Studio can assist in navigating unfamiliar websites and building Google Sheets, highlighting its versatility across various tasks and platforms. The technology's ability to process large amounts of information quickly and provide actionable feedback is emphasized.

<https://www.youtube.com/embed/OC12MEiQG4k>

Podcast #1 (I told NotebookLM to target instruction to teachers):

[Google AI Studio for Teachers.wav](#)

Podcast #2 (This was the default output without any prompting):

[Google AI Studio for Teachers part 2.wav](#)

## **Briefing Document**

Okay, here is a detailed briefing document summarizing the key themes and ideas from the provided text:

### **Briefing Document: Google AI Studio Screen Sharing Analysis**

#### **Introduction:**

This document summarizes the key takeaways from a tech demonstration of Google's AI Studio, specifically focusing on its screen-sharing capabilities. The demonstration explores how AI Studio, using the Gemini model, can analyze screen content in real-time and provide feedback, assistance, and insights. The user tested this tool across several scenarios, including analyzing student performance data, navigating new software, creating spreadsheets, reviewing lesson content and even debugging code.

### Key Themes & Ideas:

- **Real-Time Screen Analysis:** AI Studio enables real-time analysis of screen content, going beyond just text input. This includes the ability to “see” and understand:
  - Documents (e.g., Google Classroom Gradebooks, rubric spreadsheets, audition packets)
  - Software interfaces (e.g., website navigation, code editor)
  - Potentially any visual data displayed on the screen.
  - The presenter highlights that “the ability to use basically any window and get instant feedback on how it works is pretty stellar.”
- **Interactive AI Assistance:** The tool facilitates two-way conversation between the user and Gemini, allowing for dynamic problem-solving and question answering based on the shared screen content. This interaction can include:
  - **Vocal commands:** The user can speak to Gemini and receive verbal responses
  - **Screen Sharing:** Gemini analyzes the screen's visual content.
  - **Webcam integration:** Allows the sharing of physical objects or documents.
  - The user noted that he has “an audio file of everything that Jim and I said” in addition to the text transcript of each response, which allows for review.
- **Versatile Applications in Education:** The demonstration highlights a broad range of educational uses:
  - **Analyzing student data:** Gemini can quickly identify patterns and areas of weakness in student scores across multiple assignments and a detailed rubric.
  - The presenter notes that this method was “much much faster” than manually analyzing the scores, even though it “isn't perfect.”
  - Quote: “This is easier than going through and individually looking at each one of the scores.”
  - **Generating targeted feedback:** Gemini can suggest areas where students need additional support based on their performance data and identify patterns across students.
  - **Finding resources:** Gemini can recommend search terms and types of resources related to specific learning needs (e.g. video and written resources on internal pulse and technique for drumline students).
  - **Reviewing curriculum:** Gemini can assess the appropriateness of learning materials (e.g., an audition packet) based on specific student needs.
- **Beyond Educational Context:** The tool's application extends to general productivity and learning:
  - **Navigating unfamiliar software:** Gemini can guide users through the steps of using a new website or application, even if it is a complicated application.

- Quote: “the capability to basically remove the limitation of knowing how to use anything that you can have on your screen within reason obviously...is pretty powerful.”
- **Creating new documents/projects:** Gemini can provide step-by-step instructions for creating documents, such as setting up a spreadsheet or an email draft.
- **Code assistance:** Gemini can provide analysis and debugging support for code.
- Quote: “I can help you understand the logic of the code, explain specific functions or algorithms and suggest potential causes of issues.”
- **Limitations and Imperfections:** The user acknowledges that AI Studio is not flawless:
- **OCR limitations:** AI sometimes misreads text from screen images, especially with fast scrolling (e.g., mispronouncing or misinterpreting a musical piece’s title).
- **Initial errors:** The user experienced an initial error when the AI misidentified a student.
- **Information recall:** The user was able to see that Gemini has difficulty maintaining a context of information shared from different documents.
- This resulted in the user having to “re-adjust” the questions that were being asked.
- **Dependence on Context:** The user discovered that some questions can be confusing and can cause the chatbot to have difficulty responding to prompts. This required him to clear the chat and start a new session.
- **Iterative Process:** The user emphasized the importance of adjusting the way information is presented to the tool and the way questions are phrased.
- The presenter noted that “the retry and kind of readjusting how I went about asking the questions or presenting the information seemed to make quite a bit of difference.”

### Specific Examples of AI Functionality:

- **Student Data Analysis:** Gemini correctly identified that students were struggling with the “formal audition” and that students had weaknesses in internal pulse and technique.
- **Software Navigation:** Gemini was able to assist the user in finding the correct fields in a work order request, and identified a discrepancy that was not immediately obvious to the user (that a field was cut off).
- **Spreadsheet Creation:** Gemini walked the user through building the framework for a spreadsheet.
- **Curriculum Assessment:** Gemini analyzed an audition packet and gave a good assessment about the level of difficulty it contained for the students the user was working with.
- **Code Assistance:** Gemini suggested improvements to the structure and accessibility of HTML code.

### Conclusion:

Google AI Studio’s screen sharing feature shows significant potential as a real-time assistant with a variety of applications. It is particularly useful for educators for analyzing student data

and improving teaching, but it's also valuable in general learning, software navigation, and code assistance. While not perfect, it offers a faster and more interactive way to process information and get help with digital tasks. The user concluded that it "has the capability to basically remove the limitation of knowing how to use anything that you can have on your screen within reason obviously...is pretty powerful."

## Frequently Asked Questions about AI Studio's Screen Sharing Feature

### **\*\*What is AI Studio's screen sharing feature and how does it work?\*\***

AI Studio's screen sharing feature allows you to share the contents of your computer screen with the AI model, Gemini. Gemini can then "read" the content of the screen and provide feedback, answer questions, or assist you in various tasks related to what you're showing it. You can use it for a variety of tasks, like getting feedback on a document, understanding how to navigate a website, or even getting help with coding. When you initiate screen sharing, you'll be prompted to select the specific screen or window you wish to share, granting the AI access to visually perceive the content being displayed. This effectively creates a real-time, visual interaction with the AI.

### **\*\*How can I use AI Studio's screen sharing feature in an educational context?\*\***

The screen sharing feature has numerous applications for educators. It can be used to get feedback on student work, such as rubrics or assignment scores, allowing the AI to identify areas where students are struggling and suggest improvements. It can also help teachers learn how to navigate complex websites or software platforms, create new resources, and even assist with lesson planning. By sharing your screen, you can essentially have an AI tutor or assistant to guide you and provide support in a variety of tasks related to teaching and curriculum development.

### **\*\*Can AI Studio analyze data displayed on my screen, like a spreadsheet of grades?\*\***

Yes, AI Studio can analyze data displayed on your screen. For instance, it can process a spreadsheet of student grades and identify patterns in student performance, such as common areas of weakness. In the example in the text, it quickly reviewed student scores in a Google sheet and determined that internal pulse and technique were the main areas of deficiency. The AI can summarize trends, compare student data, and provide helpful insights you can use to adjust your teaching methods or provide targeted support.

**\*\*How does AI Studio handle complex documents or long web pages when screen sharing?\***

AI Studio can process complex documents and long web pages by reading the content as you scroll through it. In the example with the rubric, the user scrolled through the lengthy Google Sheet and the AI was able to read and analyze the data. This allows it to understand context, which is important when analyzing information across multiple fields. This enables you to have the AI evaluate various pieces of information in real-time without having to manually copy and paste anything or share direct files.

**\*\*Can AI Studio help with tasks beyond just data analysis, such as navigating websites or using software?\***

Absolutely. AI Studio's screen sharing isn't just for analyzing data. It can also assist with navigating websites, software applications, and other programs. You can use it to get step-by-step guidance on how to use a platform, troubleshoot problems, or complete tasks, such as filling out forms, opening support tickets, or working through specific processes in a given program. This makes the tool not only useful for content-related tasks, but also for more general assistance with software.

**\*\*How can AI Studio assist me in creating new digital resources like Google Sheets?\***

AI Studio can help users, especially those who are new to a certain tool, to create new digital resources. By screen sharing a blank sheet, the AI can walk you through the steps required for the project. It can provide guidance on column headings, formulas, and other necessary functions. This can be extremely helpful in making sure you know how to properly set up a sheet or other resource that might be essential to your productivity.

**\*\*Can AI Studio provide feedback on curriculum or teacher materials?\***

Yes, AI Studio can analyze curriculum and teaching materials by visually processing them on your screen, including analyzing an audition packet and suggest elements that might be beneficial for students based on their weaknesses. The AI can identify complex or problematic areas in the curriculum and help to decide what is or is not working for a specific group of students. This functionality will help teachers refine lessons and make sure the learning material is targeted to areas of improvement.

**\*\*Is AI Studio helpful for debugging code or providing programming suggestions?\***

Yes, AI Studio can help with coding, including debugging code and providing suggestions for improvements. It can understand the logic of your code, explain its functions, and point out areas for enhancement by identifying best practices. While it can't directly modify your code, it can help you analyze it and give suggestions on what to do next, so it can be used as a programming resource. This can be especially useful for learning new languages or improving the quality of your code.

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