Leveraging Generative AI Tools

For Software Engineers

LEARNING OBJECTIVE

By the end of the lesson, you will be able to...

- ☐ Identify ways ChatGPT can be leveraged by software engineers to improve their workflow.

Instructor Demonstration

Leveraging Generative AI Tools

ChatGPT for Software Engineers

Instructor Demo: During this 15 minute demonstration, you will see a few powerful ways ChatGPT can be used by software engineers.

During the demo, **consider the following**:

1 The **capabilities** of the tool

2 The **limitations** of the tool

3 The reasons it is important for the **user** to be a **skilled software engineer**

ChatGPT Practice

Leveraging AI Tools

ChatGPT Practice

Do your best to debug python code using ChatGPT!

Instructions:

1   Login to [ChatGPT](#) (create a free account if you don't already have one)

2   Open [this Google Colab notebook](#) and save your own copy

3   Complete as many of the problems as you can in 10 minutes!

10:00

Reflection: Leveraging AI Tools for Software Engineers

Taking what you learned and what you practiced, answer the following reflection questions.

1 List a few ways software engineers can use Generative AI tools to enhance their workflow.

2 List a few precautions a software engineers should take when using Generative AI at work.

3 How did your understanding of AI tools like ChatGPT change as a result of this lesson?

4 Going forward in this course, how do you plan to leverage AI tools like ChatGPT?

Tips for Reflection:

Think carefully through the questions, provide specific details and examples, and try to break down your thinking.