













## WHY IS GRADIENT DESCENT IMPORTANT?

- Helps computers learn quickly and efficiently.
- Used in face recognition, self-driving cars, and more!
- It's the secret sauce of Deep Learning!

- Face Recognition: "Gradient Descent helps computers learn to recognize your face!"
- •Self-Driving Cars: "It helps cars learn to drive safely on their own!"
- •Video Games: "It helps game characters learn how to beat levels!"



## References

- "Goodfellow, I., Bengio, Y., & Courville, A. (2016). *Deep Learning*. MIT Press."
- "Gradient Descent Explained. Towards Data Science."
- "What is Gradient Descent? IBM Cloud Learn Hub."



