A reminder that AI breakthrough was inspired by *human* learning

**For thousands of years, humans adapt by learning from experts**

Lately, we often copy randomly

Folk tales 4,000 yrs old

Medicinal plants

Yasawa Islands, Fiji

Two dimensions of learning

**Social learning**

**Individual learning**

Identify best based on metrics

Read what we see someone else reading

Pick a book at random

Read what Dr. Fagan recommends

Cascade of copying

Initial Tweet

Transparency
Chat GPT: An expert on python coding

"How can I add a moving average to a python plot?"

```
global_temp = [{"Date": [1950.0, 1955.0, 1960.0, 1965.0, 1970.0], "Temp": [60, 65, 70, 75, 80]}

# Calculate the moving average with a window size of 3
moving_avg = temp.rolling(window=3).mean()

# Calculate the upper and lower bounds of the confidence interval
upper_bound = moving_avg + 1.96 * moving_std
lower_bound = moving_avg - 1.96 * moving_std

plt.plot(dates, temp, label="Temp")
plt.plot(dates, moving_avg, label="Moving Avg")
plt.plot(dates, upper_bound, label="Upper Bound")
plt.plot(dates, lower_bound, label="Lower Bound")
plt.legend()
plt.show()
```

"How would we add a 95% CI around the average to that plot?"

The world is the third planet from the sun in our solar system. It is the only known planet with life, and it has a diverse range of ecosystems and climates.

The world has a circumference of approximately 40,075 kilometers (24,901 miles) at the equator and a diameter of about 12,742 kilometers (7,918 miles).

The world’s population is currently estimated to be over 7.9 billion people, spread across nearly 200 countries and territories.

Conclusions

• The study of how humans learn underlies AI and education
• Humans learn socially, from others
• Ideally, Chat GPT can facilitate a Socratic search of the library of knowledge