**Machine Learning:**

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3. \*\*Financial Modeling – Algorithmic Trading:\*\*

- In algorithmic trading, genetic algorithms assist in evolving trading strategies. By representing different trading strategies as individuals in a population, genetic algorithms can optimize parameters to maximize returns or minimize risk.

### Game Development:

**Behavioral AI for NPCs:**

* Genetic algorithms are used to evolve behavior trees for non-player characters (NPCs) in games. The algorithm generates and evolves sequences of actions for NPCs to make their behavior more dynamic and responsive to changing game conditions.