

Economics meets Machine Learning : Double Insurance Auction

Task 1. Doubling trick in UCB code (used provided resources of online learning & some concepts of ML)

Task 2. A double auction in the insurance industry is a type of auction where both insurance buyers (policyholders) and insurance sellers (insurers) submit bids and offers for insurance policies. The auctioneer, in this case, would be a platform that matches insurance policies to potential based on their bids and offers.

The auctioner (platform) matches buyer bids with seller offers based on the price and coverage preferences.

Flow chart I considered in writing code for double insurance auction -

1. Define Bid Parameters: Set the parameters for the bid, such as bid submission deadline, coverage requirements, and bid format.
2. Input Buyer Information: assigned a class to give input for buyer.
3. Input Insurance Policy Details: made variables for other factors such as details about the insurance policy being sought, such as coverage type.
4. Create Bid: Used the collected information to formulate a bid that includes the buyer's preferences and conditions.
5. Submit Bid: Submitted the bid to the auction platform or relevant parties.
6. Collect Seller Offers: Gathered offers from insurance sellers based on the submitted bids.
7. Match Bids and Offers: Matched buyer bids with relevant seller offers based on criteria like price and coverage.
8. Are There Matches?: Checked if there are matches between buyer bids and seller offers.