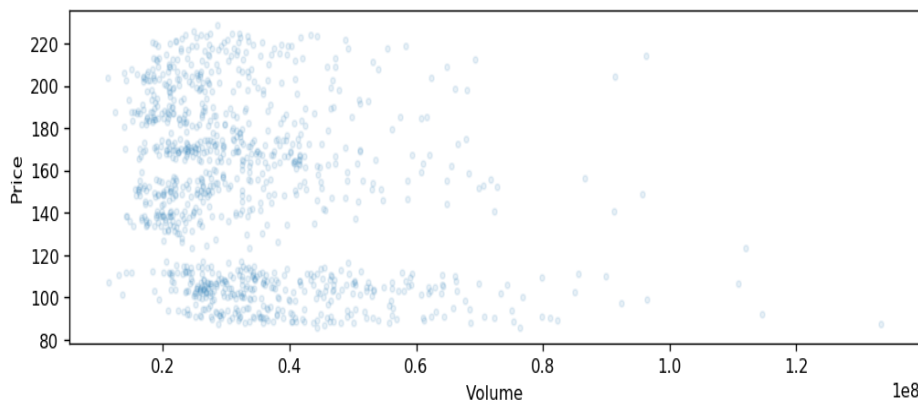


Volume Profile Implementation Guideline

1. Import the 1min timeframe stock data with the following attributes:
 - `Open`, `Close`, `High`, `Low`, and `Volume`
2. Ascribe the volume for each 1min interval to the `Close`
 - The volume in each 1min interval is approximately allocated to the close of that 1min interval. This may be intuitive if we want to use high-volume nodes and low-volume nodes to differentiate potential S/R.
3. Implement a method so that we can visualize the volume distribution of a day.



4. Splitting the daily price interval (High - Low) into N blocks with $\Delta = M$.
 - For example, if `high` and `low` for a certain day are 200 and 190 respectively, the delta for that day is $(\text{High} - \text{Low}) / N = (200 - 190) / 100 = 0.1$. This means the first block will start from 190 to 190.1 and all the volume that occurs within this price range will be counted into this block. The second block will start from 190.1 to 190.2 and so forth.
 - The volume at the boundary should be carefully taken care of. For example, the volume that occurs at 190.1 will only be counted once into the second block, since the first block contains [vol at 190, vol at 190.1) and the second block will contain [vol at 190.1, vol at 190.2)
 - The minimum delta for all the blocks is set to be 0.01.
5. Implement a method to compute the sum of volume for each block.
6. Implement a method so that we can visualize the horizontal volume distribution bar along with the 1min price chart of a day.