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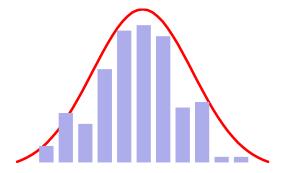
Based on the assumption that data is Bell shaped



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Chebyshev's Theorem

At least $\left(1 - \frac{1}{k^2}\right)^{th}$ of data lie within $\pm k$ standard deviations from the mean regardless of shape of the distribution.

Specifically, Chebyshev's theorem says that *at least* 75% of all values are within \pm 2 standard deviations from the mean regardless of the shape of the distribution.