Hello everyone and Mentoring team! The topic of my reel is Mean or in other cases average.

* Although they are synonymous. There is a slight difference solely in terminology between the terms:
* **Average** is the sum of all the values divided by the total number of values. The term is often used in day-to-day English conversation.
* **Mean** is a specific type of average and is calculated in the same way as the average by summing all the values and dividing by the count of values. However, the term “mean” is used more in a technical and mathematical sense. There are also other types of means such as the geometric mean and harmonic mean.

Next, we’ll use Power BI to show a small demonstration of how average works. Pretty simple right?

Although average is a very simple formula. It is used in every sector of work from what you expect in finance or statistics to even the unexpected to some. In deep learning, there is a type of pooling called average pooling where you get the average of a given kernel. It is generally used to reduce the complexity of the model to prevent it from becoming overfitting.

The average can be used either directly like shown previously or indirectly in for example Normal Distribution, also known as the Gaussian Distribution. When plotted on a graph, the data follows a bell shape, with most values clustering around a central region and tapering off as they go further away from the centre.”

So, how does the average relate to the Normal Distribution? Well, in a Normal Distribution, the mean, median, and mode are the same and are located at the centre of the distribution. This means that the average value is the peak of the bell curve. The mean determines where the peak of the curve is centred. Increasing the mean moves the curve right, while decreasing it moves the curve left.

We can see average being used in all aspects of our lives. We just must take a closer look at them. Such a simple, yet such a powerful formula. We talk about the average temperature, the average cost, or even the average time it takes to get to work, we’re using this fundamental statistical concept. It helps us understand and navigate the world around us, providing a simple summary of complex data.

So, the next time you hear the word ‘average’, remember - it’s not just a number, it’s a story of the data, a snapshot of the whole picture. Statistics is not just about numbers; it’s about understanding the world around us. Thanks for watching!