

## 1. Thank you for the feedback.

- A. A lot of people gave feedback
- B. I felt really motivated.
- C. Huge Thanks to everyone.

## 2. How are we improving from the last feedback?

- 1. We shall revisit the last 15 min of the first session.
- 2. Maintain the Same pace overall the session.
- 3. Maintain a list of items to cover and link every topic to this list.
- 4. Will keep updating this if we have new suggestions.

## 3. Today we shall cover these topics:

- 1. Activation Functions and how it works ✓
- 2. Kernel Initialisation and Bias. ✓
- 3. How to train CNN Model.
- 4. Cats vs Dog's use case to understand how to build and train CNN model coding. ( Major focus on coding part today)
- 5. Custom model and trainable parameters calculation.
- 6. Overfitting vs Underfitting.
- 6. Back propagation working ( If time persists at the end ) ✓

$$D = \{x_i, y_i\} \quad \begin{matrix} x_i \in 2 \text{ dim} \\ y_i \in [M, F] \end{matrix}$$

| Height | weight | gender |
|--------|--------|--------|
| 170    | 70     | M      |
| 180    | 75     | M      |
| 175    | 72     | M      |
| 168    | 65     | M      |
| 140    | 45     | F      |
| 145    | 48     | F      |
| 137    | 49     | F      |
| 135    | 47     | F      |

