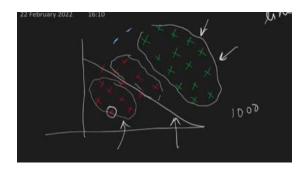
# **Problem with Perceptron Trick**

# We can't quantify how well our Perceptron Trick is

### Some Hypothetical Scenario of Convergence.



What if harbaar jo Random Point vo Select krrha hai vo correctly classified hai. or else he is selecting 1 point again & again, this are some hypothetical scenarios.

#### & Out of 100%

- 1.) 1% chances will be their ki line is not reaching convergence
- 2.) But 100% of the times their will be the problem about whether the line we got is the best Line or not. Or there is some more best lines we can get, yeah pata karna mushkil hai.

### So we Solve this issues using

#### **Loss Functions**

Because of Loss Function we are able to Quantify our Result,

We got to know ki humara Result kitna acha hai

# **More Loss Function**

Probability mai chaye tou Activation Function jo hai ushe Sigmoid kesath replace kardo

### Perceptron bada Flexible hai

Loss Function jaisa require hai & Activation Function jaisa require & Har baar SGD lagao & jaisa Model chaye vaisa milljayega tumhe

