## project

**笔记本:** OFDS

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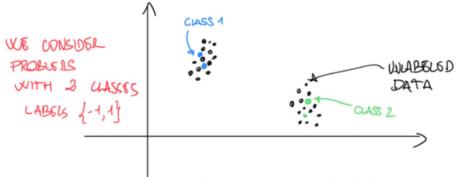
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#### SEKISUPERVISED LEARNING

- · WE HAVE & LABELLED EXAMPLES (zi, yi) i=1,-, e
- · WIE HAVE Y UNLABELED EXAMPLES XJ J=1, -, 4
- · GOAL: FIND y'!

## IN REAL-WOLLD PLASTERS

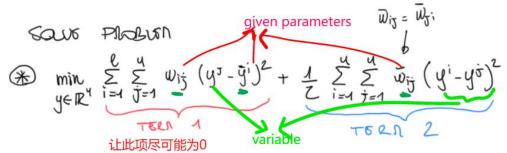
- · EASY TO UST DATA
- · HARD TO GET LADOUS -> HUGS NUNCETL OF UNLADOUSD



#### similar feature = similar labels

PALADIGHT SIMILAL FEATURES = SIMILAL LASSILS

- · DEFINE WOIGHTS WIT -> SIMILARITY BETWEEN
  - · LABBUED EXAMPLE I
  - · UNLABBLED EXAMPLE ;
- · DEPINE WEIGHTS WIT -> SIMILARLY BETWEEN · UNLAGELED EXAMPLES i, T



- · TELT 1: UNLABELED EXAMPLED SIMILAL LABELS 2840 COUBLAN OFF
- TERM 2 : SITHAR UNLABELLED EXAMPLES GET SIMILAR LABBLY

## BHOW TO CHOOSE WHIGHTS! similarity measure

· USE SOME SIMILLITY DEASOLD SASED ON FEATULES!

# HOMEWORK 1 (DEADUNE MAY MITH)

- PANDORLY GENERATE A SET OF POINTS IN 2D AND GIVE LABELS TO A SMALL SUBSER OF THOSE POINTS
- CHOOSE A PROPER SINILARITY MEASULE TO DEFINE WIJ WIJ
- 3 CONSIDER THE PRODUCT (\*)
- 4 SOUT PROGUET & WITH
  - A GILDIENT DESCENT
  - BC4D WITH CANDONIES WIS
  - (C) BLYD WITH LYCUL RULE

FOR (5)-(C) USS BLOCKS OF DIMENSION 1

- 5 CHOOSE A PUBLICLY AVAILABLE DATASET TS
  AND TEST THE NETHODS ON THIS
  accuracy VS CPUtime
- 6 ANAUTE ALWRACY US CPUTTING (PLOTS)
- (I) DESCRIBE WHAT YOU DID ON A POF FIVE
- B) PUT FILES ON GITHUB FOLLOWING INSTRUCTIONS ON ROODES

## FREE TIPS

gradient

· GRADIENT WRT you