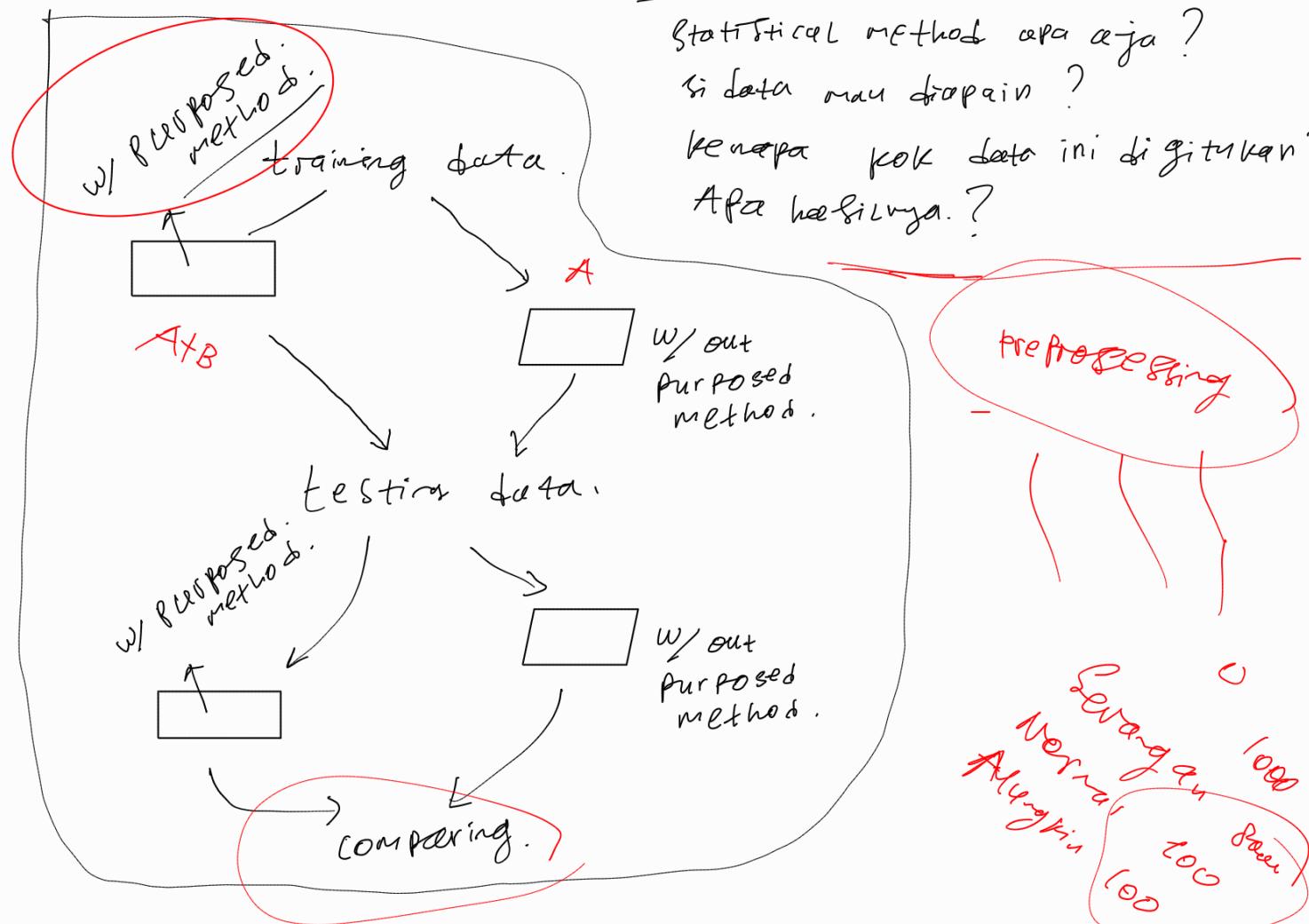


ekstrasi  
 - Skewness  
 - Curtosis.  
 - Entropy.

- Method  
 1 proposed method.  
 2  
 3

### Statistical method.

Statistical method apa saja ?  
 Si data mau dipain ?  
 Kenapa kok data ini digunakan ?  
 Apa hasilnya ?



Untuk menentukan ciri-ciri.

ciri-ciri data yang termasuk senjata.

Tanya ke pak bagus peluang security dimana di IoT cuaca.

Perjelas apa yang bisa kita buat.

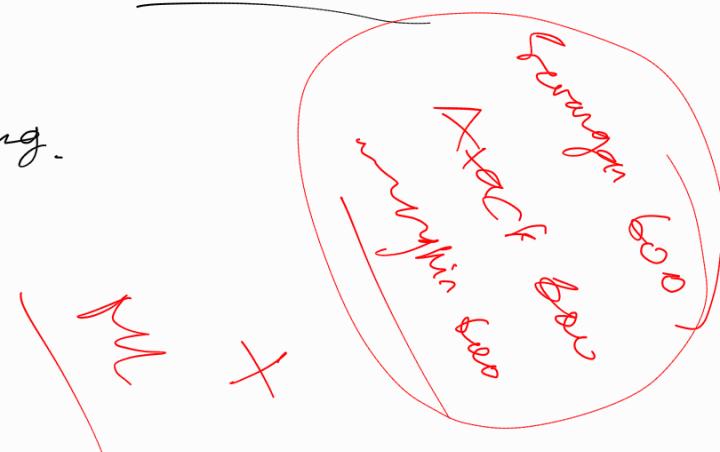
Asamsikan data yang dilindungi penting.

- Cyber ASSAULT.
- Access to control system
- Information Security.

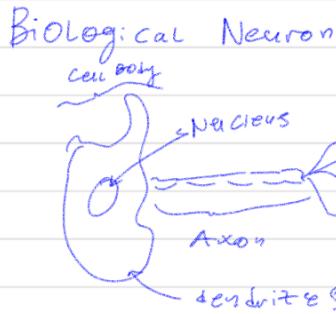
Januari / Februari

September / Oktober tulis CD 1 2 3.

~~PERIN  
TEST~~

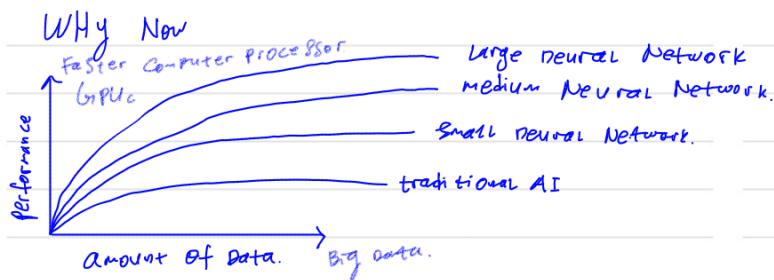
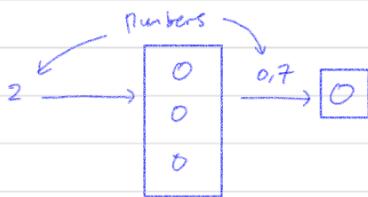


# Neuron Network

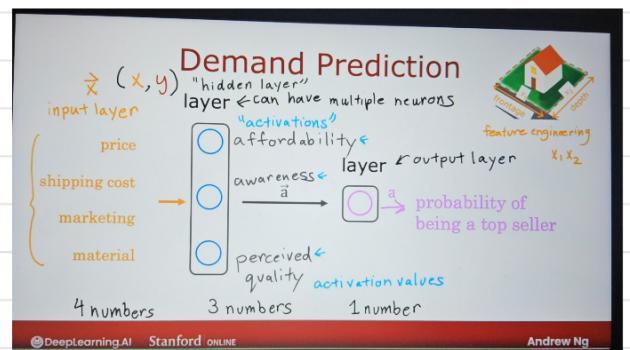
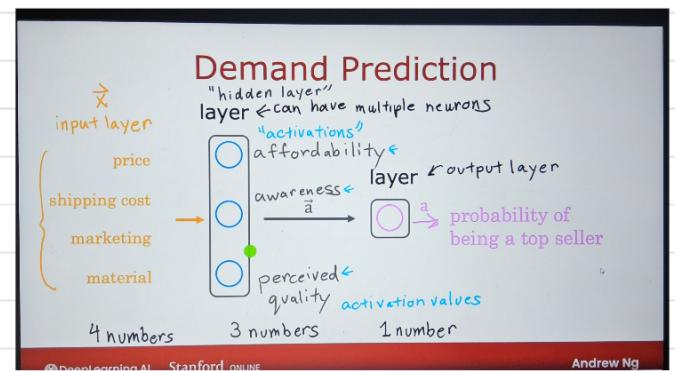
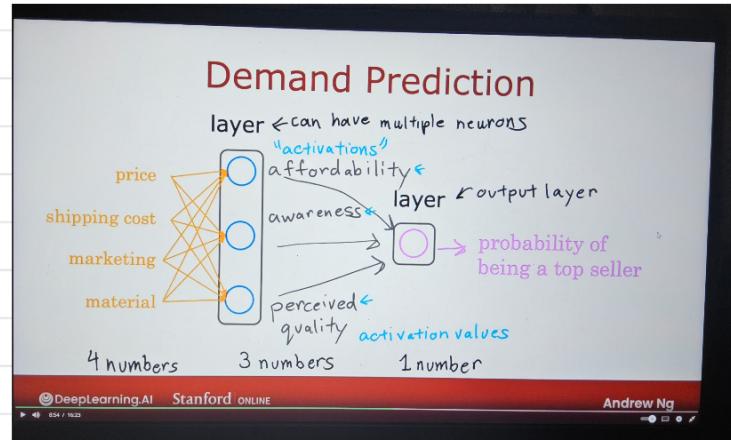
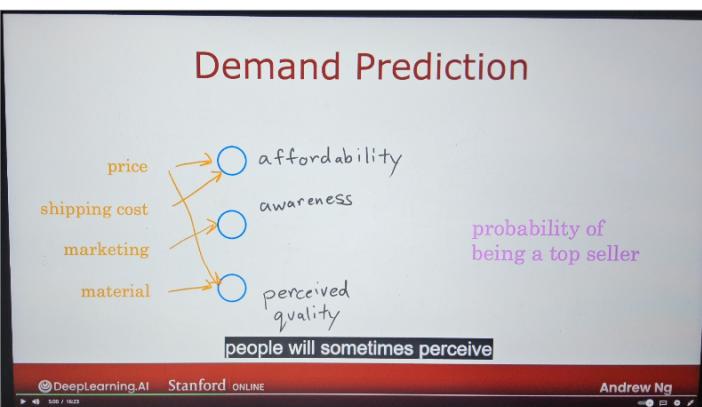
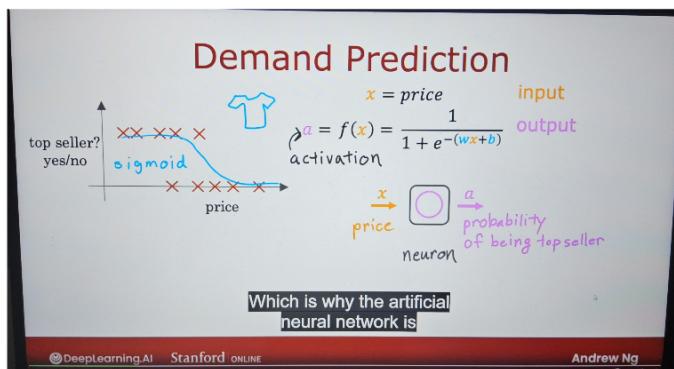


Simplified mathematical model of a neuron

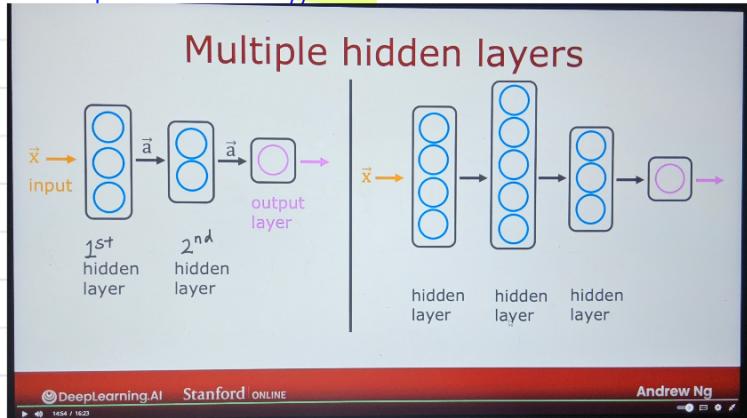
Inputs                      Outputs



## Demand Prediction



## Multiple Hidden Layers



- How many Hidden layers do you want & How many neurons do you want each hidden layer to have.



Neural Network architecture

KDD-Cup 99 & NSL-KDD Dataset  
Klasifikasi → DOS

Entropi → mengukur keacakan data.  
Statistik → max min  
σ (sigma)  
Skewness.

○ TCP

○  
↓

duration

DOS = [ ... ]

Type Attack	
Bad	1
Stan	2

Fitting

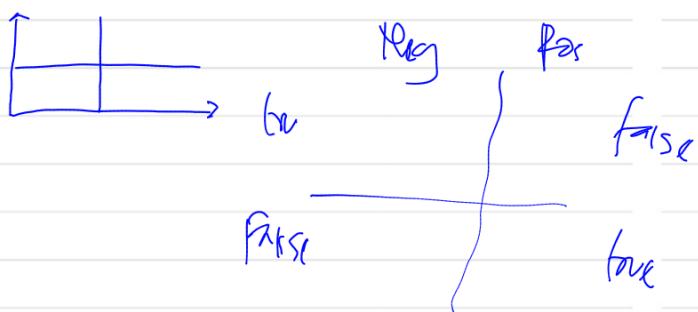
↳ proses belajar

Predict

↳ diketahui saat lalu menjawab.

Analyzing prediction.

↳ bagus tidak metanya. ??



Serangan apa yang ada di NSL-KDD ?

Box plot.

feature extraction.



Mengenai bagaimana pengaruh diatas.

↳ main Balon Cina → Error nya kecil  
efisien.

Balancing ...?

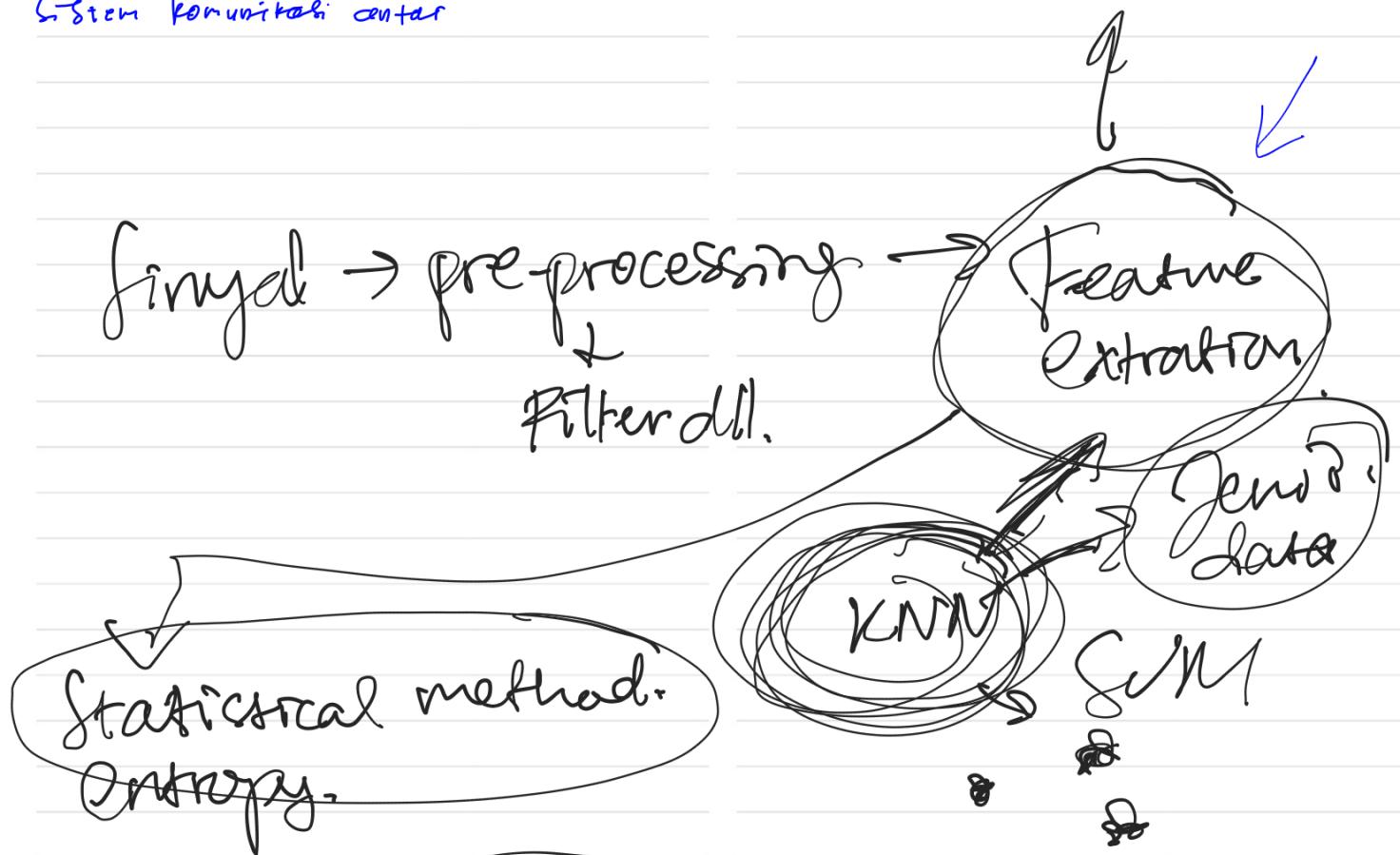
Apa yang ditambahkan

Propose metode SeCur

Data now buat bebas

↳ Sistem prediksinya masih salah  
↳ historical data kemarin tidak  
perjelas → forecast perjelas.

Sistem komunitas center



SVM  
ACC = 80%

KNN + SVM  
ACC = ↑ 98%

Accuracy improved!

Coba dikelolah kembali  
dari paper lain.

ketika dike lampukan.

↳ machine learning akan  
Mengenali lebih mudah.

Paper Review

- Random forest + - nya apa.

Box Plot.

Skewness.

Average

min max.

Dijadiin kecil

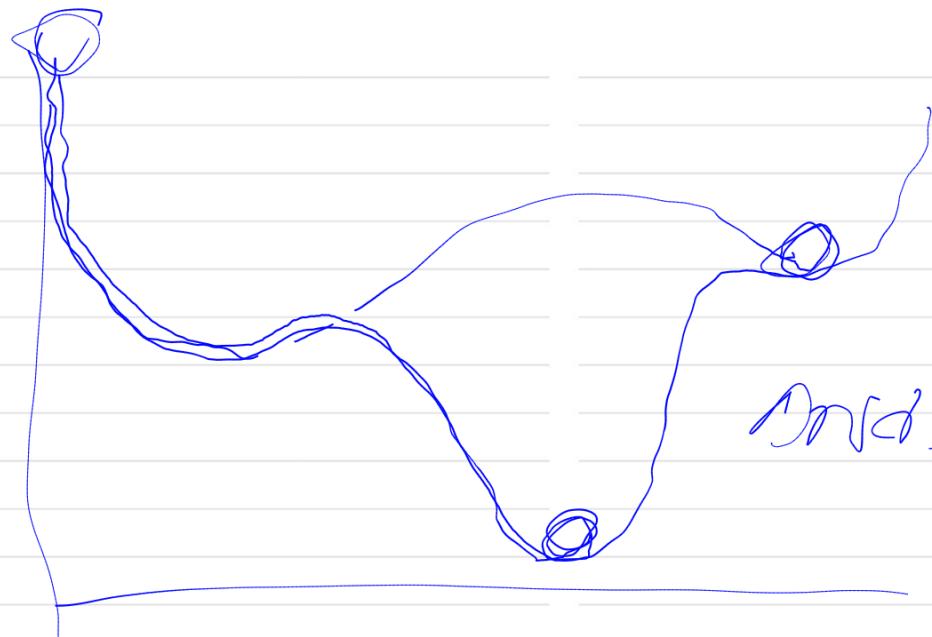
Lebih komprehensif

Semakin banyak rose.

↳ Butuh banyak data.

Kecuali ada kendala nya.

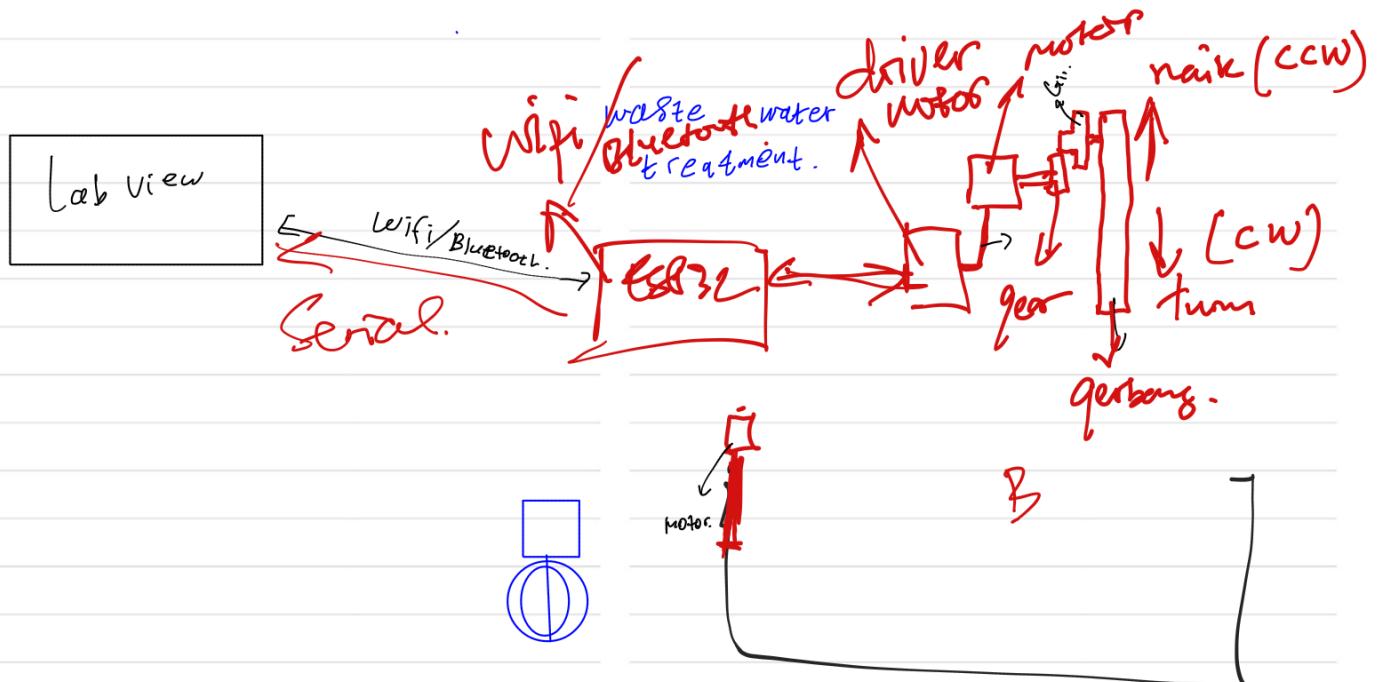
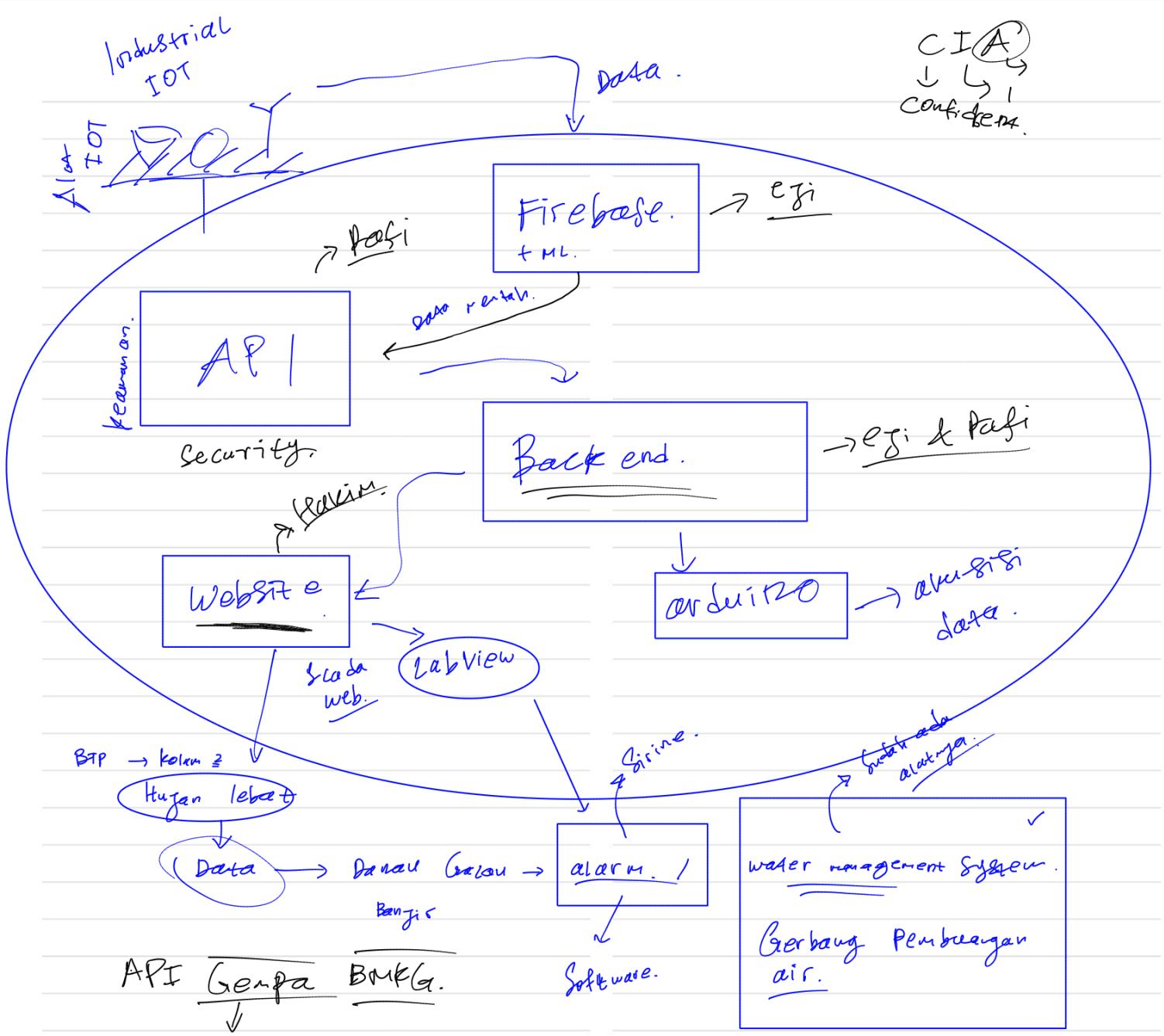
Set

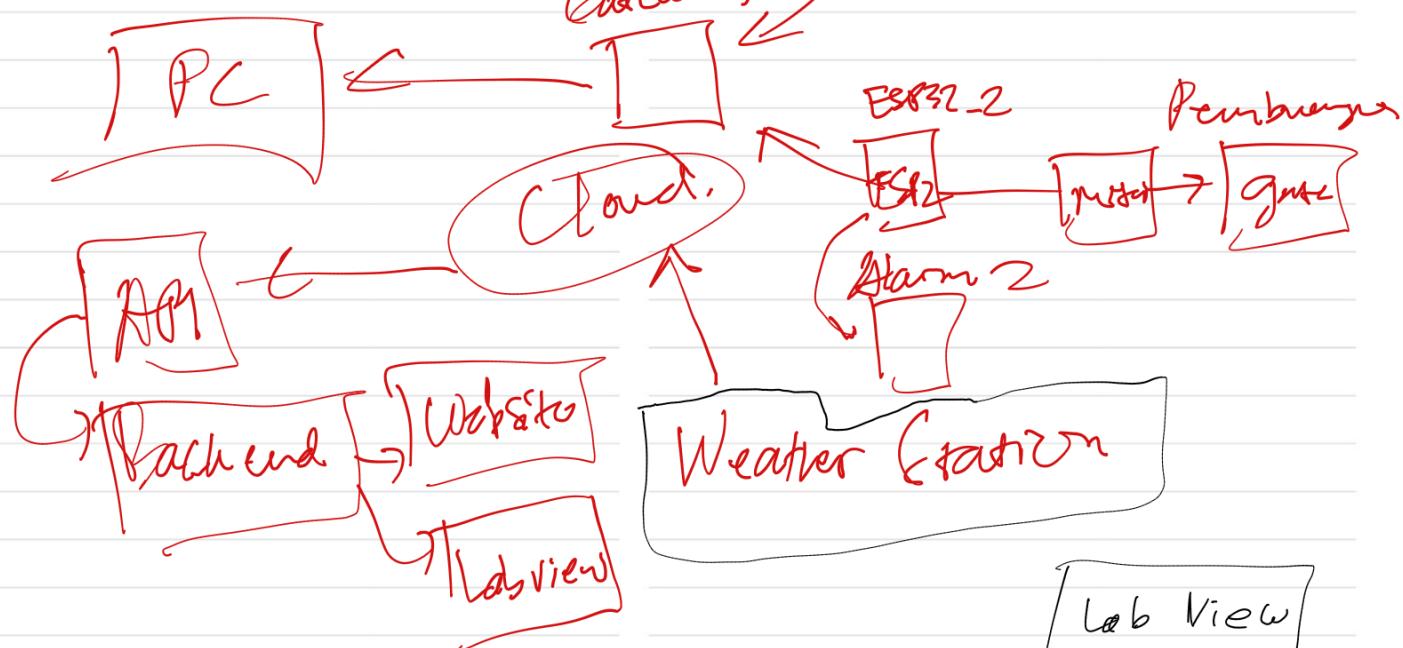
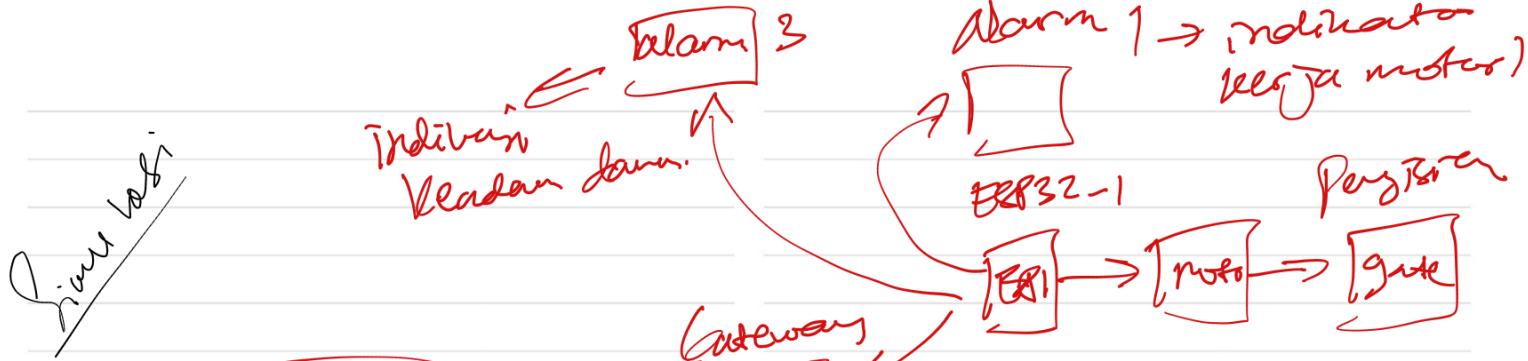


David Schucker

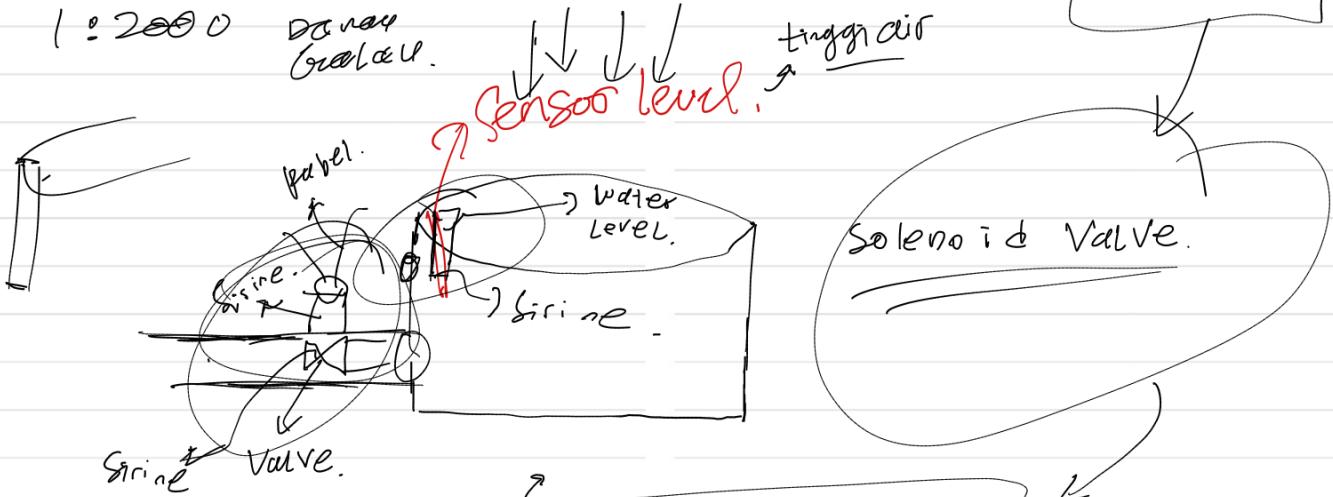
?xgboost( ) n\_estimators

?xgboost( learning\_rate = 0.001 )

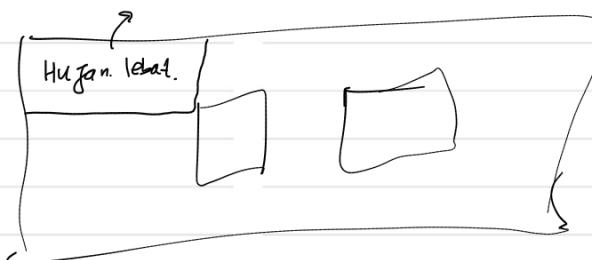




1 : 2000 Distanse Greal U.



Water Control System.



- opsi 1. minimum water level.
- 2.

Pertanyaan.



Hujan  
Hujan lebat  
Dibasai

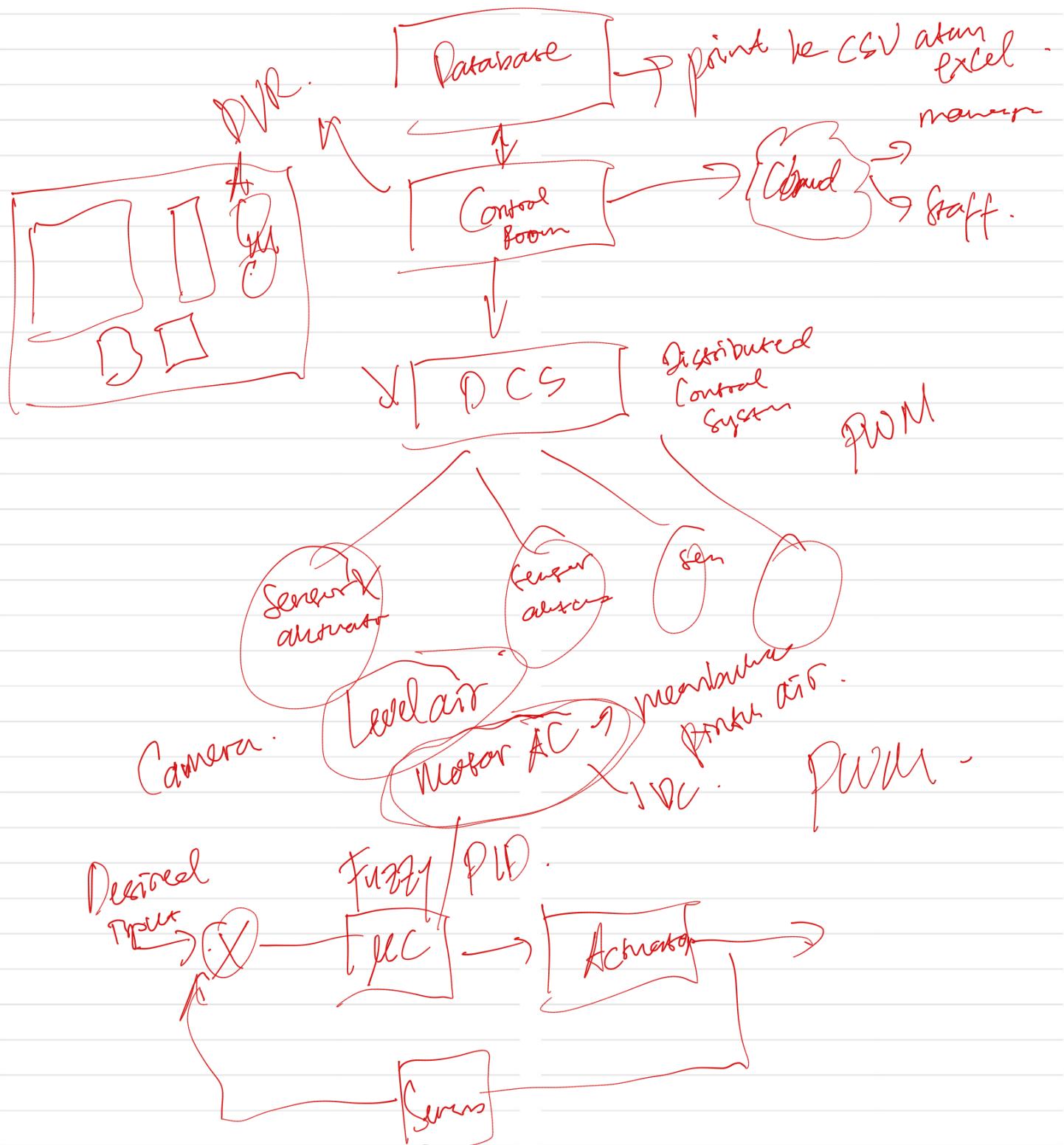
—  
warning.  
warning. → wajib buka keran.

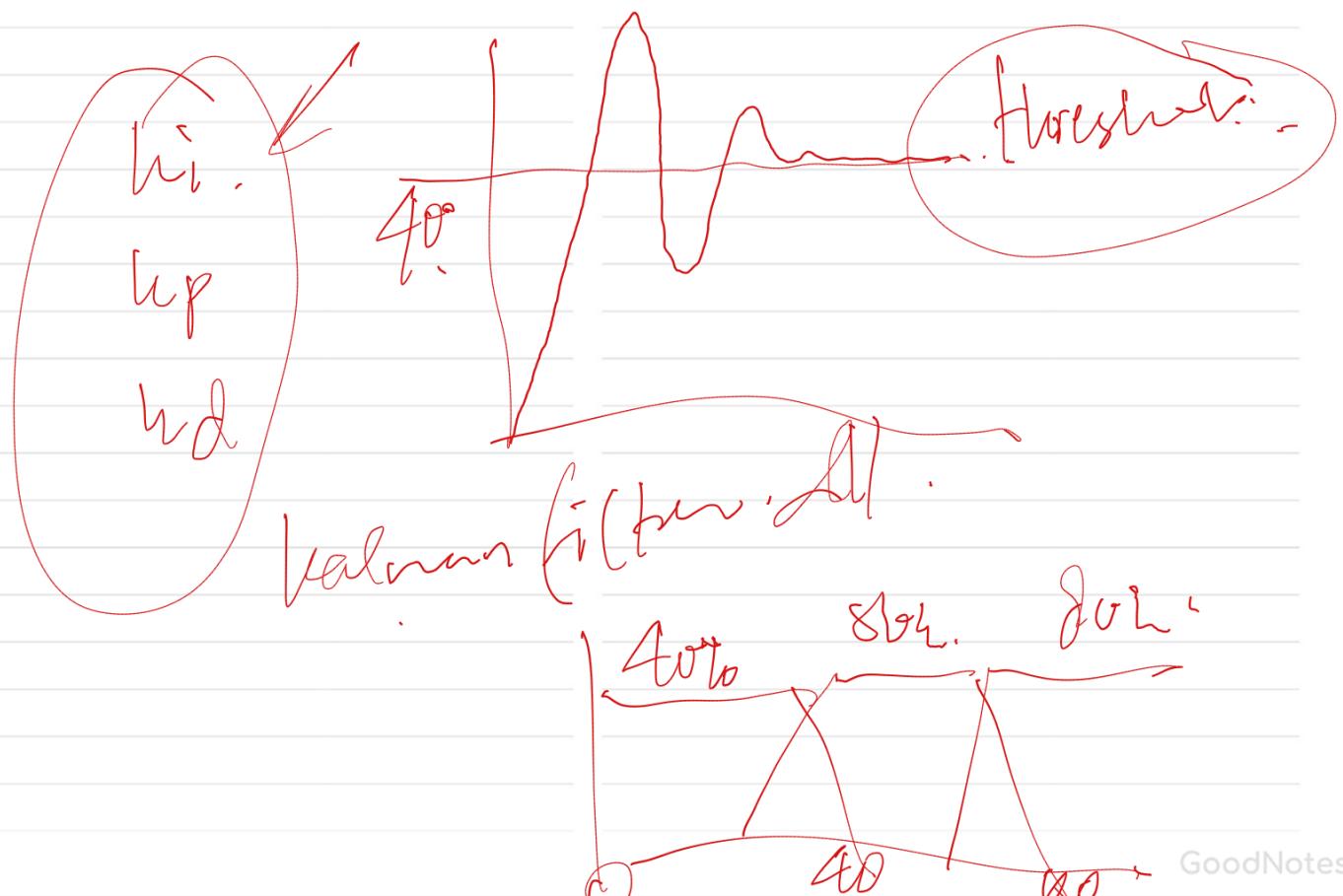
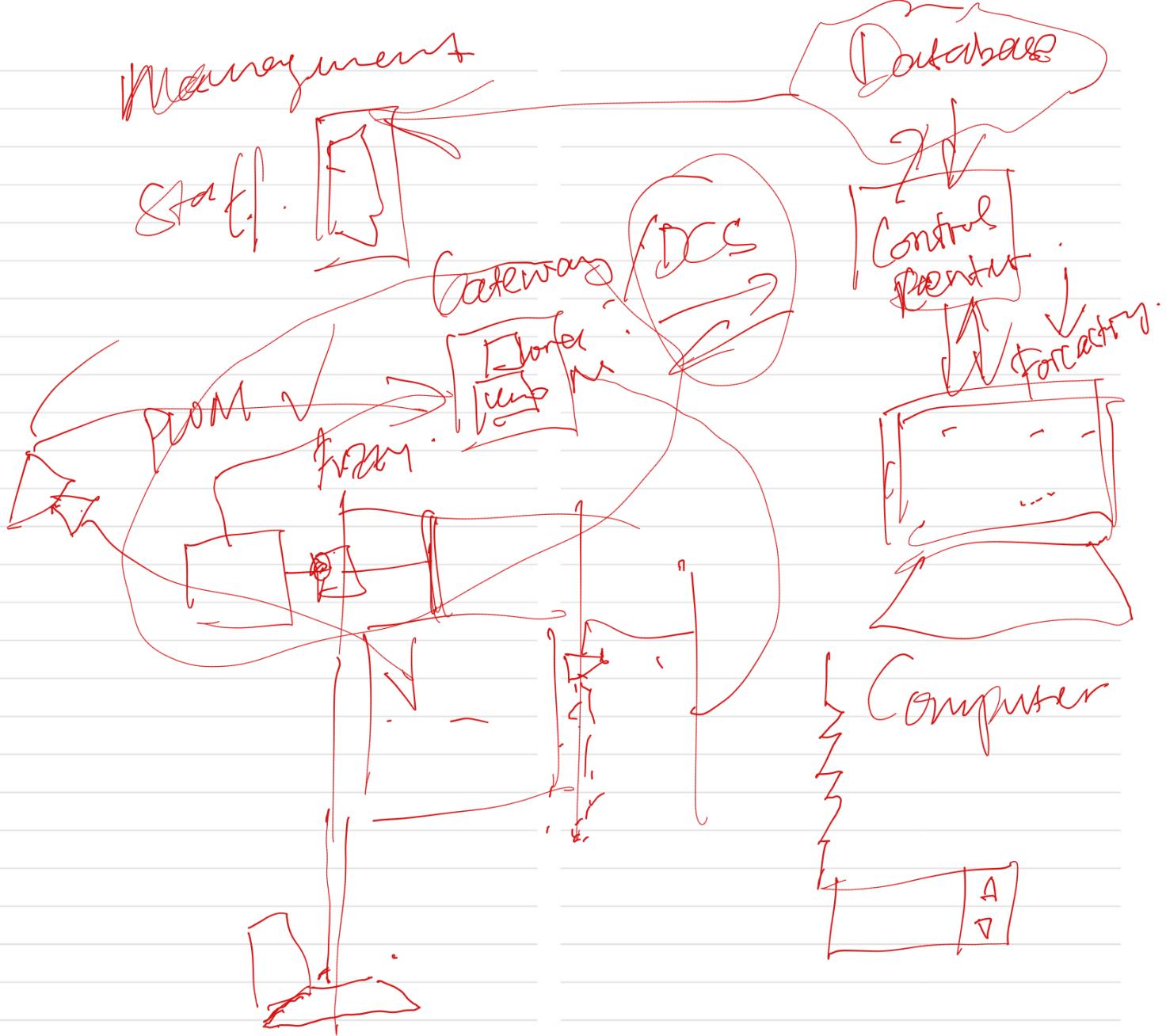
## Research methods.

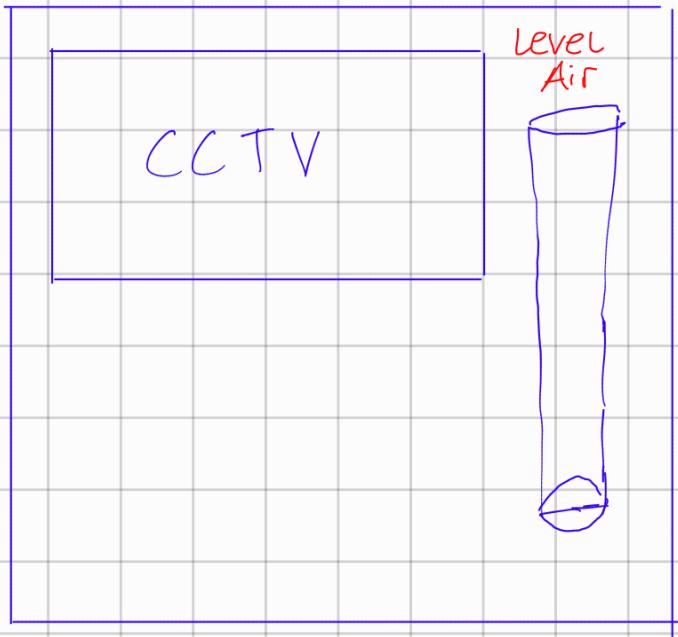
- Context aware.
  - Fuzzy logic
  - kalibrasi Sensor kelembaban.

Hasil perancangan akhir.

Paper Mitigasi Bangir.







Buzzer  
Sedang  
Bekerja.

Software

Hardware.

OPTIONAL.  
Control