

CRITERIA 4.3.4

LECTURE CAPTURING SYSTEM

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OPERATING SYSTEM SERVICES

user and other system programs

GUI batch command line

user interfaces

system calls

program execution I/O operations file systems communication resource allocation accounting

error detection protection and security

services

operating system

hardware

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- 18501A1207 aradhya akshitha
- 18501A1209 armitth sai surisha
- 18501A1210 arshi hafezunnis...

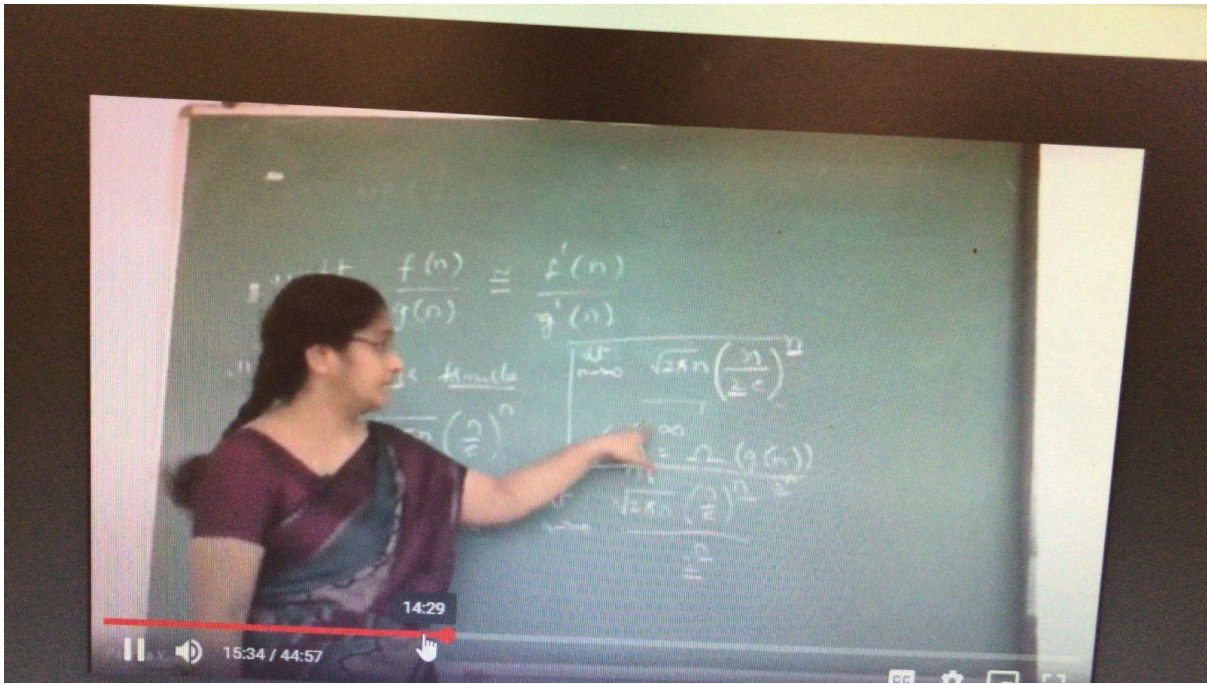
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Divide-and-Conquer

The most-well known algorithm design strategy:

1. Divide instance of problem into two or more smaller instances
2. Solve smaller instances recursively
3. Obtain solution to original (larger) instance by combining these solutions

Mr. Ch. Praneeth

Parallel Execution on a multicore system.

Core 1 $T_1 | T_3 | T_1 | T_3 | T_1 | \dots$

Core 2 $T_2 | T_4 | T_2 | T_4 | T_2 | \dots$

time \rightarrow

Challenges in programming for multicore system.

1. Dividing activities.
2. Balance.
3. Data splitting.
4. Data dependency.
5. Testing & debugging.

Supervised Learning

1. Classification: label type--categorical(Gender, qualification)
2. Regression: label type -- continuous(ht. of a person, wt. of a person, price of product)

2.1 Linear Regression: classify data with a straight line(degree = 1)

$$y = mx + c \Rightarrow y = wx + b$$

$w = \text{weight}(\text{slope})$
 $b = \text{bias}(\text{intercept})$

2.1.1: Simple Linear Regression:
if you have only one feature and one class label
eg.
1. X: 0 1 2
y: 0.1 0.2 0.3 0.4
2. prediction of height based on age.
Feature(X): age
Class(y): height
 $\text{height} = w \cdot \text{age} + b$

2.1.2: Multi Linear Regression:
if you have more than one feature and one class label
eg. prediction of height based on age and gender.
Features(X): age, gender
class(y): height
 $\text{height} = w_1 \cdot \text{age} + w_2 \cdot \text{gender} + b$

2.2 Non-Linear Regression: classify data with a curve(degree > = 2)
 $y = x \text{ pow } \theta$

airtel

Untitled6.ipynb - Colaboratory
<https://colab.research.google.com>

Untitled6.ipynb
File Edit View Insert Runtime Tools Help All changes saved

```
import time;
start = time.time()
from sklearn.neighbors import KNeighborsClassifier
knn_prediction = KNeighborsClassifier(n_neighbors=5)
knn_prediction.fit(X_train_scaled, y_trainset) #training the model
```

NameError Traceback (most recent call last)
 <ipython-input-18-263c2c12748a> in <module>()
 3 from sklearn.neighbors import KNeighborsClassifier
 4 knn_prediction = KNeighborsClassifier(n_neighbors=5)
----> 5 knn_prediction.fit(X_train_scaled, y_trainset) #training the model

NameError: name 'X_train_scaled' is not defined

SEARCH STACK OVERFLOW

```
[17] prediction = knn_prediction.predict(X_test_scaled)
end = time.time()
```

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