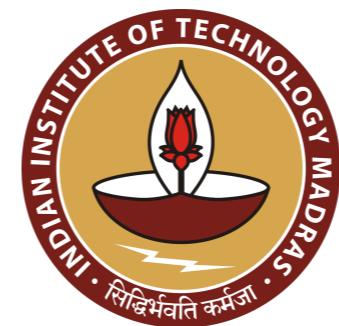


I am another You

*We should have worked hard enough in order to
be lucky – Vishwanathan Anand*

by

Manas Thakur



August 24th, 2015

Who am I?

- A KITSian
 - B.E. Computer Technology (2009 - 2013)
 - UT, UR, CR
- Placed in Persistent Systems Ltd.
 - Didn't join!
- Cracked GATE-2013
 - AIR: 780
 - Percentile: 99.65
- Research scholar at IIT Madras (2013 - present)
 - Dual-degree (M.S + Ph.D)
 - Associated with: PACE Lab, Department of CSE
 - Area: Program Analysis



I am another You



Who am I?

A friend, alumnus, student

I am another You



What does a B.E.@KITS give you?

- Excellent command at fundamentals
 - Think beyond university exams
 - Very helpful for GATE preparation
- All-round growth opportunities
 - Leadership and organization skills
- Ample time
 - Most of us actually read only during exams



leadership
motivation
dedication
excellence
drive
discipline
passion
heart



I am another You



I am another You



Check Your Eyesight

Know what you want to **be** after BE

Vision

(vīzh'ən) *n.*

- 1. An imagined idea
or a goal toward
which one aspires.**



Figure out the path(s)

Stick to **Ethics**: ends don't justify the means



Move ahead

Avoid distractions but be **aware**



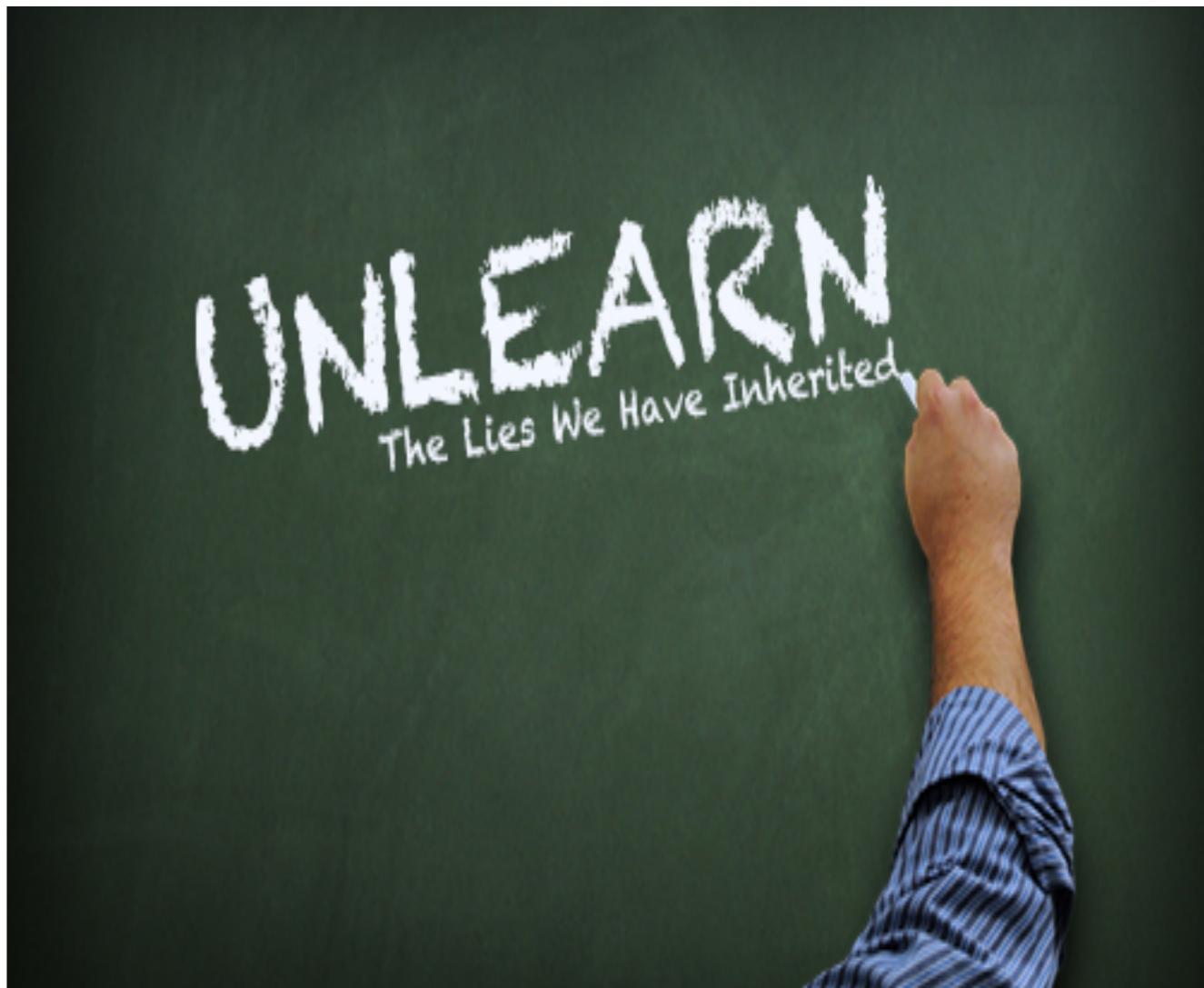
Survival of the Harmonious



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Things to “Unlearn”

- Memorizing things
- Non-standard books
- Preparing for exams
- The “Blame Game”
- The Sir-Mam culture



Things to Learn

- Being active
- Taking responsibility
- Managing time
- Communicating effectively
- Using Internet



I am another You

Communicating effectively

- **Read**
 - Books
 - Novels
 - Magazines
- **Write**
 - BUGS in Writing
 - The Elements of Style
- **Speak**
 - Get involved: debates, discussions
 - Word Power Made Easy



Using Internet

- Think beyond Facebook
- Technical help: Stackexchange/Stackoverflow
- MOOCs: NPTEL/MIT-OCW/Udacity/edX/Coursera
- One site to rule them all: Youtube
- Take certified courses from IITs/IISc



CS-Specific

Computer Science



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The UNIX Philosophy

- Use a Linux distro for programming
- Experience the power of Terminal
- Learn Vim editor
- Prepare documents using LaTeX
- Write shell scripts
- **Takeaway: Go use command line**



ubuntu

LATEX



Efficient Programming

- Algorithm design & analysis
- Computer architecture
- Systems programming
- Compilers
- Parallel computing
- OS fundamentals
- Scalability (Big data)



Improving Online Presence



github
SOCIAL CODING

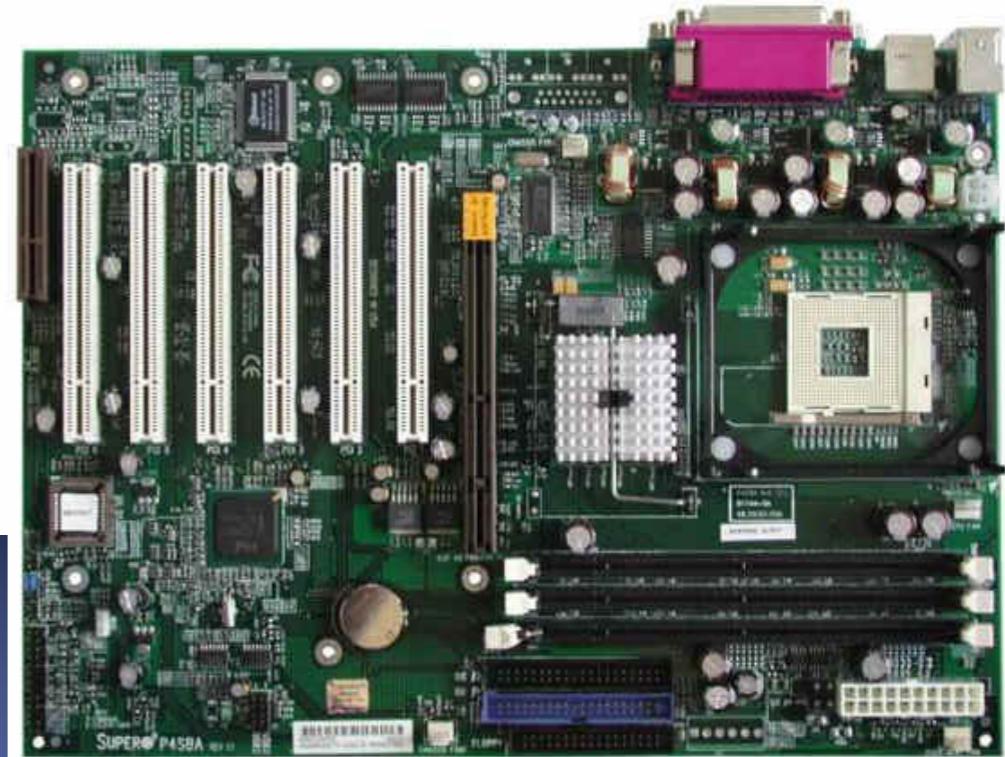
WORDPRESS

Cracking the GATEs of IITs/IISc

1. Choose your favorite GATE subjects
2. Read and understand all text books
3. Start preparing before 7th sem
4. Stay away from All-in-One guides
5. Join a good test series
6. Practice previous-year papers
7. Join “Gate Guidance” group at Facebook
8. Apply wisely at various institutes
9. Check places with double/triple filtration
10. Low score: Look out for winter admissions
11. Know the difference between industry and research careers



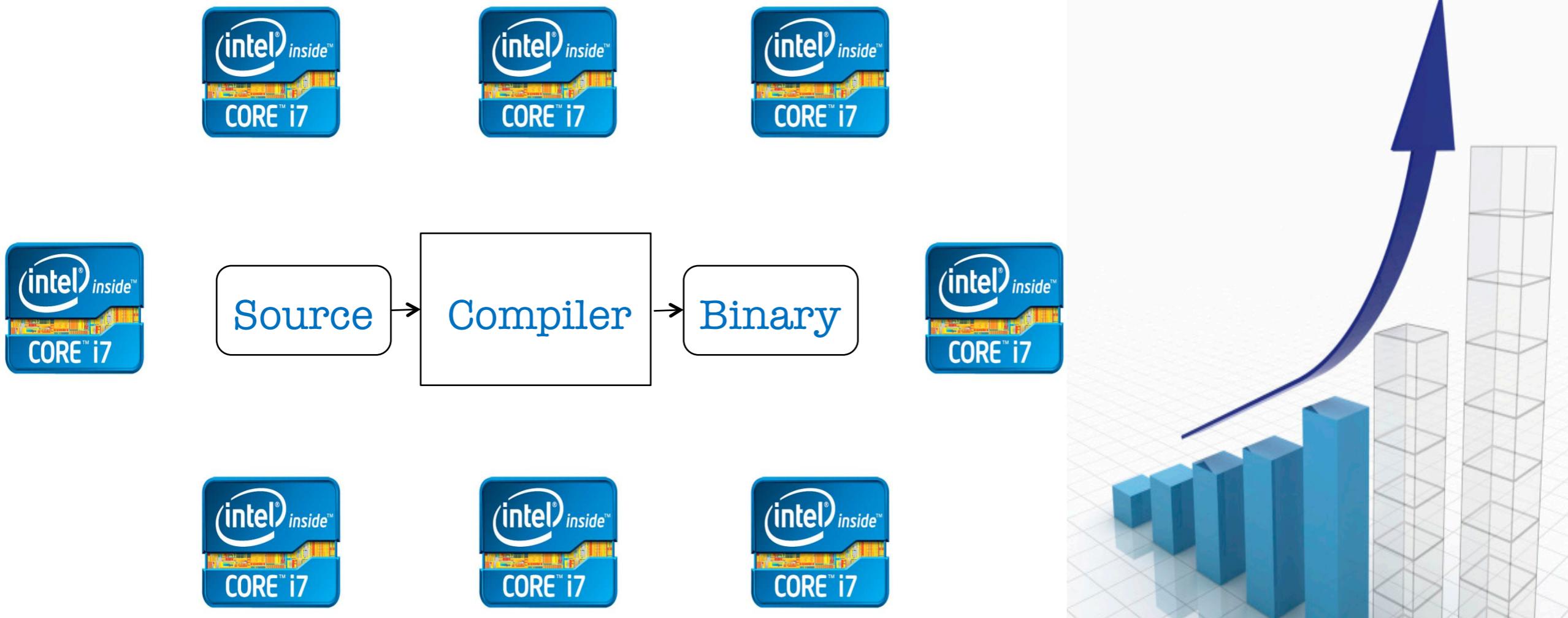
Research in Computer Science



```
void bubbleSort(int ar[])
{
    for (int i = (ar.length - 1); i >= 0; i--)
    {
        for (int j = 1; j <= i; j++)
        {
            if (ar[j-1] > ar[j])
            {
                int temp = ar[j-1]; O(1) O(i)
                ar[j-1] = ar[j];
                ar[j] = temp;
            }
        }
    }
}
```

$\sum_{i=0}^{n-1} O(i) = 1 + 2 + 3 + \dots + (n-1) = O(n^2)$

My Work



I am another You

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Welcome to Chennai



I am another You

Welcome to IIT Madras

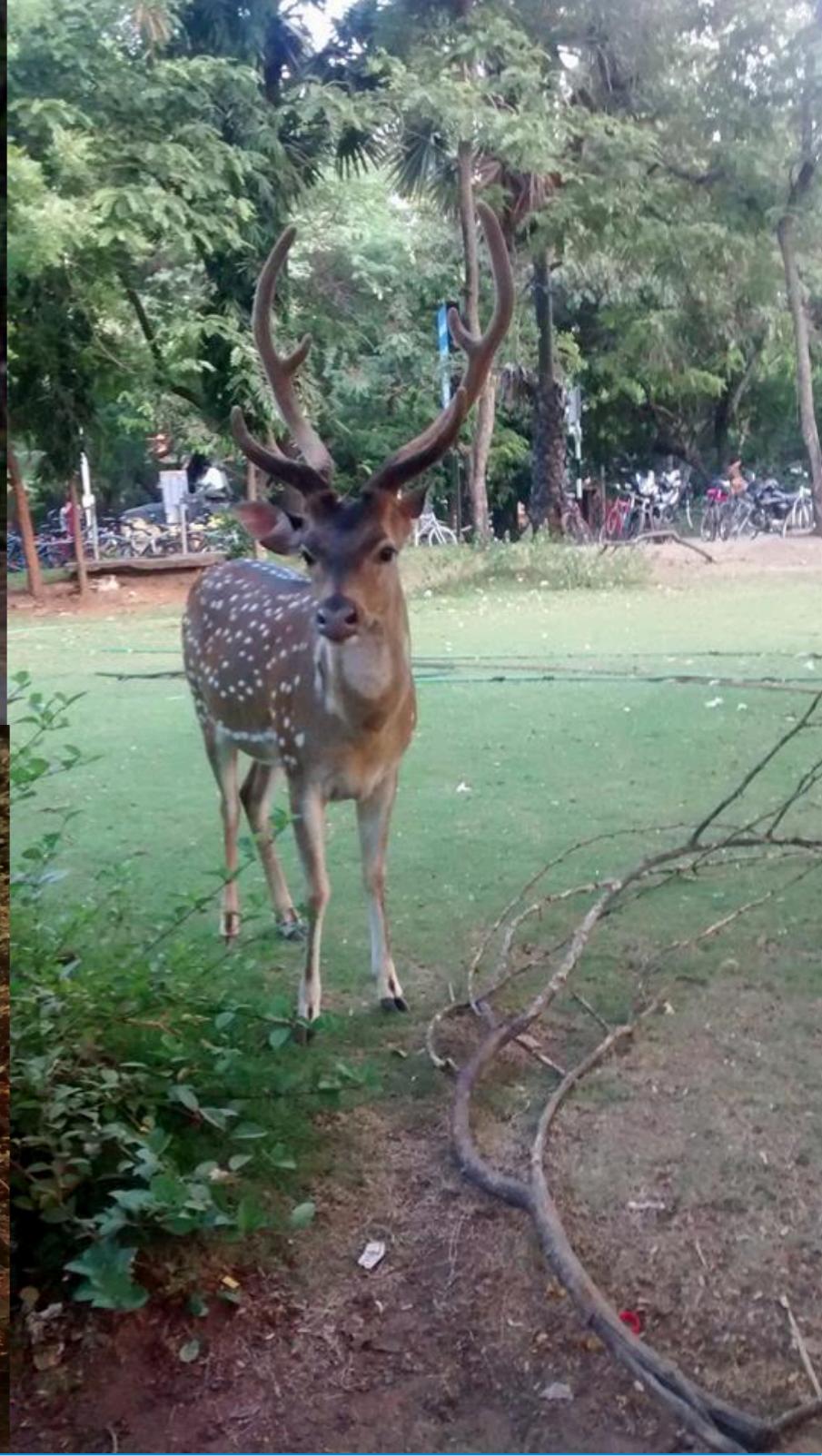


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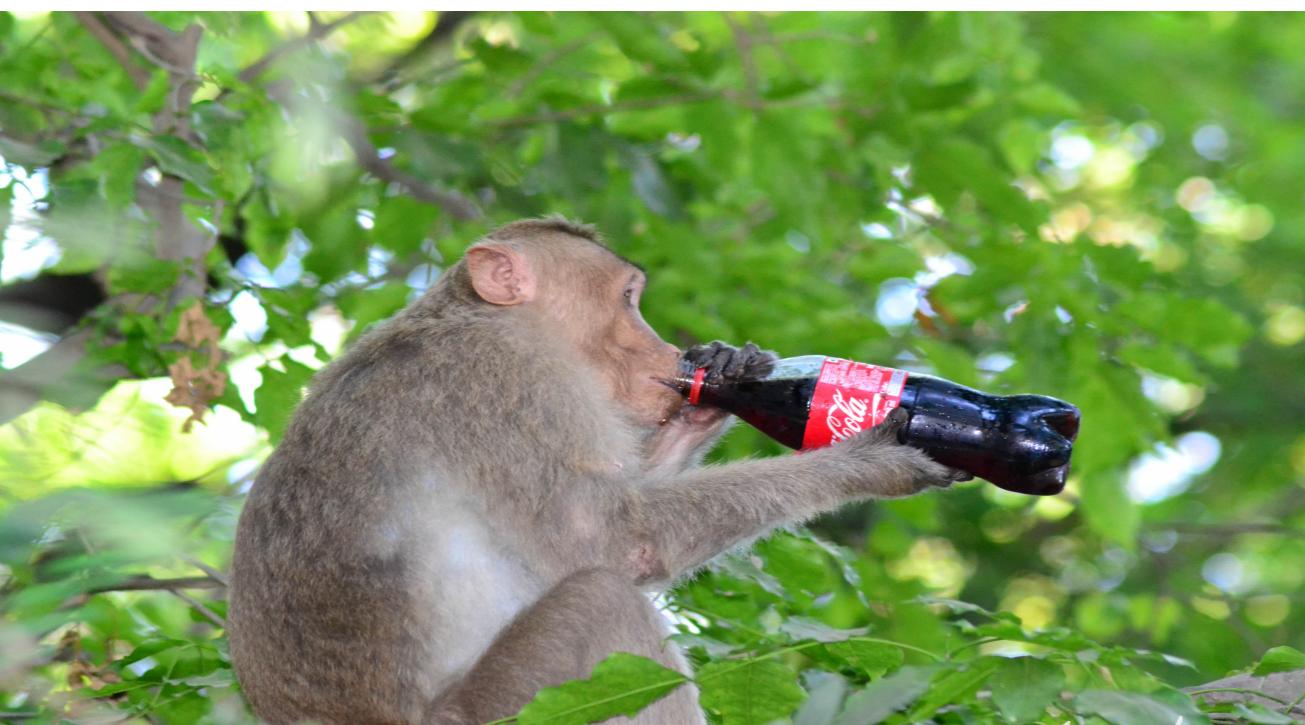
Welcome to IIT Madras



I am another You



Welcome to IIT Madras



I am another You

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Stay Hungry, Stay Foolish, Stay Connected

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Facebook:

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LinkedIn:

www.linkedin.com/in/manasthakur

GitHub:

www.github.com/manasthakur

WordPress:

manasthakur.wordpress.com

