



“
THE ROAD TO
SUCCESS
IS ALWAYS
UNDER
CONSTRUCTION.”

”
LILY TOMLIN

#JUSTWISE

Just Wise

Show and Tell



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1 Introduction – Show and Tell

Initial version

Technology (Programming) classroom lectures are delivered using "Show and Tell" method. Each concept is explained in the class by demonstrating developed programs or developing programs real time on a laptop connected to overhead projector.

Laptop is connected to Internet to facilitate problem solving and build that attitude by referring to online sites like stackoverflow.com.

Syntax or logical errors are purposely seeded, and students are expected to contribute to resolving them, thus encouraging a participative learning approach.

Version-2

Having ripped the fruits of Show and Tell method to teach Technology, it was further thought to enhance this to certain modules like “Software Project Management” and “Software Testing and Quality Assurance”

Based on the real-life application development case studies, Software Project Scheduling and Planning is demonstrated in the class. Risk Management including mitigation planning, Test strategy development, Test case development, Requirements to test case traceability gets demonstrated by motivating students to participate in the activity. Verification and Validation activities like reviews are conducted in the class where students are motivated to play different roles of relevant stakeholders.

Version-3

Integration of Generative AI in teaching “Technology” modules.

Faculties teaching “Technology” modules can take assistance from Integrated AI within various IDEs and seek numerous solutions to a single problem statement. Such IDEs generated code, documentation of code including Test Cases. This speeds up the ability of faculty in creating the program repository and demonstrating number of solutions to same problem statement.



2 What was the need and Why?

Problem Statement [Initial version]

It was noticed that “Teaching” pedagogy for “theory” classes of “Programming languages” was typically chalk and board sessions; Teachers used to teach concepts by writing relevant program statements on the boards and explain them; Students used to take notes and during **practical** sessions used to develop / write programs using installed IDEs, compile them and execute; This pedagogy posed number of problems

- a) Chalk Board sessions slowed the coverage of the subject;
- b) Demonstration was missing;
- c) Problem solving was missing;
- d) Engagement in class was minimal;
- e) Interaction was done only with selected few;
- f) Faculties were not hands on, which led to limited capability of faculty;
- g) Lack of repository;

Problem Statement [Version -2]

The sessions on Software Project Management and Software Testing and Quality Assurance were PPT based lectures with minimal attempt to make them demonstration based. Lectures were theoretical with students failed to visualize the concepts like

- a) ISO 9000, CMM certifications
- b) Quality Control and Assurance
- c) Verification, Validation and Testing
- d) Project Management
- e) Risk Management
- f) Test Management
- g) Defect Management
- h) Service Management
- i) Various metrics collated in life cycle



Problem Statement [Version -3]

Faculties teaching “Technology” typically limit themselves to a known solution to a given problem. This limits faculty’s ability to demonstrate multiple ways to seek / resolve solutions. Once the repository is built, faculties resolve to stick to the same approach of taking similar set of programs limiting themselves to seek more examples or alternatives.

Integrating generative AI within IDE opens up an opportunity to eliminate the above limitations.

Using Integrated AI faculties depth and spread of solutions to a given problem multiplied leaps and bounds. For instance, one solution could be a simple non-recursive solution with more lines of code, whereas another solution of same problem could be using recursion. So, this increased the amount of repository getting discussed and covered in class for students, thus increasing the depth and spread of the given module.



3 Modus Operandi

Initial version

Every faculty responsible to teach Programming Language should

- Use equipped laptops with complete environment (IDE) installed;
- Demonstrate development life cycle
 - o Code
 - o Compile
 - o Removal of syntax errors
 - o Execution;
- Entire programming language should be taught in class with demonstration;
- Syntax and Logical errors should be purposely introduced and students should be challenged to identify and fix the same;
- Refer different online reference material (stackoverflow.com) and demonstrate problem solving.
- OpenS ource IDEs like CodeBlocks, Brackets should be installed.

Teachers should be ready with all the specimen programs; It is expected that execution path of each and every demoed program is discussed;

Version-2

Faculty responsible for teaching SPM and STQA modules should

- Create number of real life case studies
 - o Existing mini-projects decided by students could be considered for discussions
- Motivate students to capture “Requirement” through discussions where faculty can play a role of customer point of contact / Business owner.
- Demonstrate the creation of Requirements Specification using appropriate template.
- Demonstrate the creation of Test Strategy / Plan document
- Demonstrate the creation of Test Cases using the captured requirements



- Demonstrate V&V process for the artifacts created
- Capture Risks and discuss mitigation
- Demonstrate creation of Project schedule [typically do it for some mini project identified by students.

4 Samples

Initial Version

Below table provides a list of programs demonstrated / developed to conduct a lecture of Java for Semester-I (MCA); Please note that this is not an exhaustive list and the detailed list of programs could be found on OneDrive.

Sub Folder Name	Program Name	Description
Tutorial_01	Ex0101.java	Creation of a class from .java file; Creation of two classes from single .java file
	Ex0201.java	Object creation and invoking instance method
	Ex0203.java	Static methods
	Ex0204.java	Invoking static methods
	Ex0205.java	Strings in java, string concatenation
	Ex0206.java	Variables and using System.out.println
	First.java	Creating empty classes
	First_01.java	Significance of main method in the class
	Second_01.java	Main method and main method (special method)
Tutorial_02	Dog_01.java	Instance variables, class, creating an object
	Dog_02.java	Instantiating an object and initializing instance variables to some values
	Dog_03.java	Creating multiple objects to same class
	Dog_04.java	Creating objects, initializing instance variables and printing values of instance variables
	Dog_05.java	Creating objects, invoking instance methods
	Dog_06.java	Creating objects, invoking instance methods
	Dog_07.java	Reference of one object to another
	Dog_09.java	Concept of constructors
	Q0019.java	Scope of variables



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	Q0020.java	Scope of variables
	Q0021.java	Scope of variables
	Q0022.java	Static vs Instance(non static)
Tutorial_03	Animal.java	Inheritance concept
	Animal_01.java	Inheritance (method overriding)
	Animal_02.java	Use of super
	Animal_03.java	Method overloading
	Ex0401.java	Inheritance
	Q0026.java	Multiple Inheritance (grand-child, child, parent)
	Q0027.java	Overriding, overloading and multiple inheritance
	Q0028.java	Overriding, overloading and multiple inheritance
	Student.java	Creating object (display instance variable without initializing to any values)

Below table provides a list of programs demonstrated / developed to conduct a lecture of Mobile Application Development for Semester-III (MCA); Please note that this is not an exhaustive list, but path of the same are provided on GitHub repository

Mobile Application Development

Program App Location	Program name	Description
https://github.com/kavitakamat175/AndroidProjects/tree/main/CalculatorApp/app/src/main	CalculatorApp	Program to create Simple Calculator
https://github.com/kavitakamat175/AndroidProjects/tree/main/ConstraintLayoutDemo/app/src/main	ConstraintLayout Demo	Program to demonstrate Constraint Layout i.e. ViewGroup
https://github.com/kavitakamat175/AndroidProjects/tree/main/CustomViewDemo/app/src/main	CustomViewDemo	Program to demonstrate user defined View
https://github.com/kavitakamat175/AndroidProjects/tree/main/DatabaseDemo/app/src/main	DatabaseDemo	Programs to demonstrate database handling in SQLite



https://github.com/kavitakamat175/AndroidProjects/tree/main/FragmentLifeCycle/app/src/main	FragmentLifeCycle	Program to demonstrate Fragment Life Cycle.
https://github.com/kavitakamat175/AndroidProjects/tree/main/FirebaseDemoApp	FirebaseDemoApp	Firestore database NoSQL database
https://github.com/kavitakamat175/AndroidProjects/tree/main/LoginRegistration/app/src/main	Login and Registration Page App	Designing Login and registration pages and doing validation
https://github.com/kavitakamat175/AndroidProjects/tree/main/ImplicitIntents/app/src/main	Implicit Intents	Navigating among activities using intents
https://github.com/kavitakamat175/AndroidProjects/tree/main/ScrollViewDemo/app/src/main	ScrollView	Demonstration of scroll view and vertically scrolling the main activity
https://github.com/kavitakamat175/AndroidProjects/tree/main/DateTimePickerDemo/app/src/main	DateTimePickerApp	Call DatePickerDialog and TimePickerDialog to select date and time
https://kesorgin.sharepoint.com/:f:/s/MCA2023-25Batch/EkXVUTZnm81PsQUN9wBij1EB2KJ8xmz5t5IMbRqflguYA?e=DcwFP8	ContextMenuApp	Demonstration of menus in android
https://kesorgin.sharepoint.com/:f:/s/MCA2023-25Batch/EgbG_j1Sr3FHnPo-OBuSU8BpftB9DNUK5n42RsVxNLCYg?e=xxqF4x	DialogsDemo	AlertDialog app

Below table provides a list of programs demonstrated / developed to conduct a lecture of Angular for Semester-II (MCA); Please note that this is not an exhaustive list, but path of the same are provided on OneDrive

Angular Programs

Program App Location	Program name	Description
https://kesorgin.sharepoint.com/:f:/s/MCA2023-25Batch/EltSaXJBkoVMsNcDD-cUWB8BglDob6Tg8JI4DWpaaee4TQ?e=HOB7sV	AngularApp	Multiple web pages like contact us, about us, and many other things demonstrated in this website



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https://kesorgin.sharepoint.com/:f:/s/MCA2023-25Batch/EsZLPGnFdWVCm1GRz55_HlsBQyikhowz1f3kCAPI6R7_xw?e=YE NSpP	Dependency Injection	Dependency Injection and Services are interrelated explained here in angular
https://kesorgin.sharepoint.com/:f:/s/MCA2023-25Batch/EknFk1P9VBdCnJzYDZDX3IIBBAoeKc3dZdmD1LqIvipmAg?e=ZffnDK	Form Validation	Web app to check validations on form.
https://kesorgin.sharepoint.com/:f:/s/MCA2023-25Batch/EqFj-mp7sk5Os83V_RCFHnMBjYXtCK0Y8r8WiZ87yEM-JA?e=zug4AF	QueAns	University Questions solved in this web app

Version 2

Below is a specimen Case Study drafted by the faculty for the discussion and demonstration purpose.

Example Case Study

Development of Rejection Analysis System for a Plastic component manufacturing Unit; Plastic Component manufacturing unit comprises of Plastic blow moulding machines which are used to produce Plastic boxes, vessels of different sizes and colors; As a manufacturing process, Plastic powder and color pigments are inserted in the blow moulding machine after fixing an appropriate mould. Based on the mould relevant shaped/sized box, vessel is produced. Machine is operated by operators and it produces few hundred pieces per hour.

A Quality Control department within the manufacturing unit is responsible to check the quality of each and every component produced by blow moulding machines; There are certain parameters identified by QC department and accordingly every component is verified; If the components do not pass the parameter, the component is rejected and taken out. For every type of rejections there is a separate container in which rejected component for that reason is taken out. All the rejected components are sent back for recycling. Shredding machine shreds the component into fine powder and this powder is reused again for production;



A computerized system needs to be developed which will capture the reasons of rejections; A report needs to be generated everyday which will produce reason wise scrap generated in KGs;

Following User Interfaces are required

- a) *Maintenance (Add/Update/Inquire) of Component Master – comprising of basic fields like component code, color code, description, weight (in gms), etc*
- b) *Maintenance of color master – fields like color code, description*
- c) *Maintenance of rejection code – Rejection code, description of rejection*
- d) *Enter transactions by QC department after QC activities*
 - a. *Component code, color code, Rejected (Y/N), if rejected enter the rejection code;*
- e) *Produce report at the end of day to print following information*
 - a. *Component / color wise Summary in terms of numbers rejected due to different reasons*
 - b. *Rejection Reason wise summary of total cumulative weight*

Demonstration of creating a Test Plan for above Case study

Demonstration of creating Test Cases for above Case study.

Version 3

Below are video clips of specimen integration of Generative AI with IDE.



findArmstrong.mp4




GeminiAndroid.mp4



5 Outcome

- Sessions / Lectures are more engaging;
- Improved skills and delivery capabilities of faculties
- Improved skills of students
 - Participation in State/National level Codethons/Hackthons, competitions
 - Increased Contribution of students on online discussion forums
 - Students enhanced

Student presenting below topic at SMART PCMC Innovation Ideas at PCCOE Hackthon.

 Pratihba Institute of Business Management

Group 4 :ISP141

Assessing Performance of Biogas from Human Waste

By:
Miss. Sajiri Shivyogi
Miss. Arti Chotaliya

Mentor
Prof. Kavita Divekar



Students winning at SMART PCMC Innovation Ideas at PCCOE Hackthon







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Receiving first Prize at Kaveri Hackathon



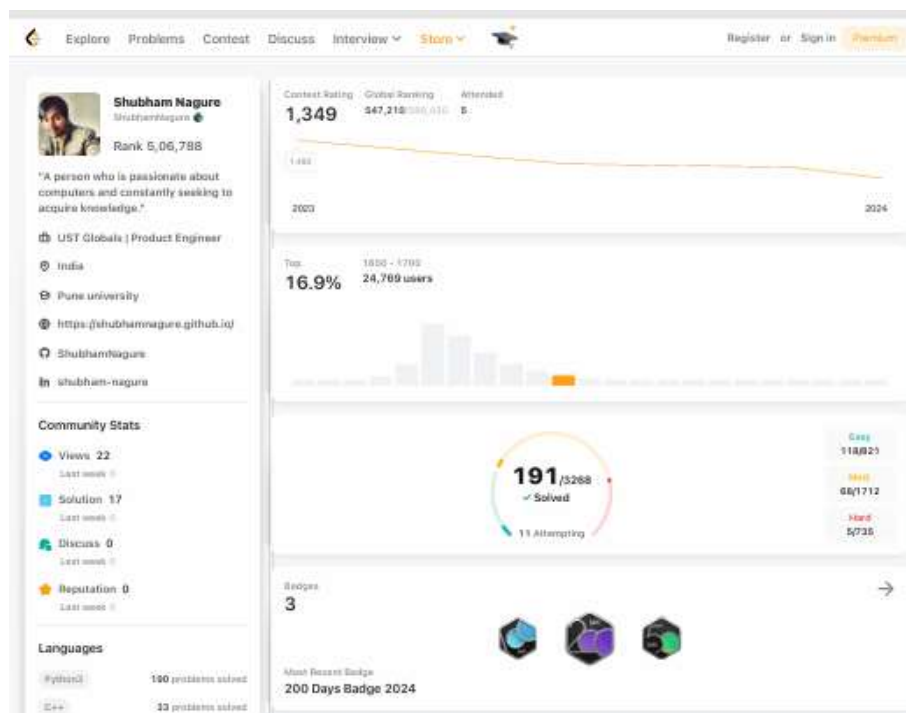


Special Recognition at Hackthon in Zeal Institute





Student contributing to LeetCode





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Knowledge is Power

The screenshot displays a coding platform interface. On the left, there is a sidebar with a 'Skills' section containing categories like 'Advanced', 'Intermediate', and 'Fundamental', each with a list of problem counts. The main content area shows a calendar for the year 2024, with a total of 1,060 submissions in the past year. Below the calendar, there is a list of recent activity (AC) with columns for 'Recent AC', 'List', 'Solutions', and 'Discuss'. The list includes various problem titles and their submission times, such as 'Find the Integer Added to Array I' (19 hours ago) and 'Subrectangle Queries' (2 days ago). The footer contains copyright information for 2024, a list of links (Help Center, Jobs, Bug Bounty, Assessment, Students, Terms, Privacy Policy), and the LeetCode logo.



Student contributing to Stackoverflow.com

The screenshot displays the profile of a user named Shubhm on Stack Overflow. The user is an Associate Software Engineer at Abznoba Inc. and has been a member for 3 years and 11 months. The profile includes a summary of 19 top tags, a list of 7 questions, 1 answer, 5 tags, and 6 badges. The questions section shows a list of questions with their respective dates and view counts. The tags section shows a list of tags with their respective counts. The badges section shows a list of badges with their respective counts and dates.

Summary

19 Top tags

Questions

View of 7 questions

- 1. Is it possible to create export as CSV button when there is pagination in your HTML using... May 16, 2021
- 2. How to revert the subpath of bloblob container of storage account on the web? Aug 24, 2022
- 3. I have table with columns like Cycle_code (2 char), cycle_month (2 char), cycle_year (4... Apr 23, 2022
- 4. How to minus the sum of one query to the sum of another query in the same oracle sql... Aug 6, 2022
- 5. Create VIEW with two different queries and same table having FKOT but one additional... Jul 22, 2022

Answers

View of 1 answers

- 1. How to pass dictionary value to python's functions in different classes of python Jul 26, 2022

Tags

View of 5 tags

- sql 0 views 2 posts
- oracle sqldeveloper 0 views 2 posts
- python 0 views 2 posts
- sql 0 views 2 posts
- python class 0 views 2 posts

Reputation

View of 1 reputation

You have no recent positive reputation changes.

Badges

View of 6 badges

- 1. You don't have a gold badge yet. We're almost there! Earn 100 or more to earn your 1st. [Win your question](#)
- 2. You don't have a silver badge yet. Ask a question that scores 25 or more to earn your 1st. [Ask a question](#)
- 3. 6 bronze badges
 - 1. Commentator Jul 28, 2021
 - 1. Commentator Nov 1, 2021
 - 1. Answerer Jul 22, 2021

Followed posts

View of 0 followed posts



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Followed posts Save Delivery Recent Delete

You are not following any posts.

Accounts

- Stack Overflow 11 x 0
- Kerala Stock Exchange 5

Active bounties (0) Refresh Unread Earned

You have no active bounties.

Articles Share Go to top Report News

You have not created any articles.

Votes cast Show all 2 votes

- 2 upvotes 2 downvotes

[View Profile](#)

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- Terms of Service
- Guided Tour
- Guided Tour (pt)
- Guided Tour (pt)

STACK EXCHANGE NETWORK

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- Professional
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Specimen Student Repository on GitHub

The screenshot shows the GitHub profile of Shubham Nagure. The profile includes a bio, a profile picture, and a banner image that says "Hi there, I'm SHUBHAM". The bio mentions current work on an ML model for Spotify recommendations and learning JavaScript and Japanese. The profile also shows a list of repositories, including "LIST-Global", "Puls", "10126 - some time", and "AVUST_COMPLED". The "Achievements" section shows a "Developer Program Member" badge. The "Highlights" section shows the "Developer Program Member" badge. The "Organizations" section shows the "Blackal Report" organization. The "Github Profile Trophy" section shows several trophies. The "My Github Stats" section shows the following statistics:

Shubham Nagure's Github Stats	
Total Stars Earned	4
Total Commits (2019)	30
Total PRs	21
Total Issues	26
Contributed to (last year)	0

The "Most Used Languages" section shows the following data:

Language	Count
Python	14,400
JavaScript	4,175
Java	2,150
PHP	1,000
SQL	2,150



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Knowledge is Power

Waka stats

WakaTime Stats (last 7 days)
No working activity this week.

Reach me on

LinkedIn, GitHub, Email, etc.

Badges

Pinned

- StackCopy-Report-Analysis** (Public)
A report in which we extracted and processed the 2020 and 2019 data for StackCopy primary OS and its Clashes and rendered by VUE.js using SASSO bootstrap.
- notify_class** (Public)
Python
- Salary-Prediction** (Public)
Machine Learning
- git-scanner-on-platform** (Public)
An advanced & comprehensive platform built on S2-Page and Django REST Framework (DRF). This project provides a robust, scalable solution for managing projects, users, users, and payments, with a focus on...
- Working-with-TwitterAPI** (Public)
Working with Twitter API

1,300 contributions in the last year

Learn how we count contributions. Learn how to use the heatmap.

Activity overview

Contributed to

- ShubhamNagari/notify_class
- ShubhamNagari/git-scanner
- ShubhamNagari/notify_class



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Contribution activity

August 2020

50G contributions in private repositories Aug 1 - Aug 31

[View more activity](#)

Bees generating electricity take a look at the [2020-21 report](#)



Student contribution on Jenkin's Community

The screenshot shows a forum post on the Jenkins community website. The post is titled "Inquiry regarding jenkins agent image which supports kubernetes version 1.25" and is categorized under "Using Jenkins". The author is "ShubhamNagure" and the post was made on "Mar 25". The content of the post describes a problem with Jenkins on AWS EKS k8s 1.22 and asks for help with the agent image for k8s 1.25. The post has 148 views and a "Reply" button.

Inquiry regarding jenkins agent image which supports kubernetes version 1.25

Using Jenkins Ask a question All questions

ShubhamNagure Mar 25

Jenkins version 2.348

I was using jenkins on AWS EKS k8s 1.22 and builds are working fine, now with the k8s 1.25 version upgrade, Builds are failing with the "Cannot connect to docker daemon". I understand eks 1.25 deprecated docker and instead using contained.

My question is how are we building in Eks 1.25, can someone help me with the agent image? any help is highly appreciated.

148 views

Reply

Related Topics

Topic	Replies	Views	Activity
Jenkins Agent PODS fail to run a job with new Docker Image Ask a question	3	1.3k	Sep 2023
Buildx in jenkins agent in k8s = 1.23? Using Jenkins	2	1.1k	Jul 2022
Build Docker Images as part of Jenkins on Kubernetes	1	1.0k	Jan 2023

- Improved Quality of Projects [IVth and VIth Semester]



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Knowledge is Power

Positive feedback from Employer like Kaldin

Kaldin Solutions

Date: 30 Aug 2024

To,
Head of Department, MCA
Pratibha Institute of Business Management
Chinchwad, Pune, Maharashtra

Dear Manish,

I am writing to express our sincere appreciation for the exceptional work being done by the students we recently hired from the MCA department of **Pratibha Institute of Business Management, Chinchwad**.

The commitment, skill, and professionalism they have demonstrated in their roles are truly commendable. It is evident that the education and training they have received at your esteemed institution have played a significant role in shaping their abilities. Their performance reflects the high standards of academic excellence and practical knowledge imparted by your department.

We value the collaboration we have established with **Pratibha College** and look forward to continuing this fruitful relationship in the future. Please extend our gratitude to your faculty and administration for their dedication to nurturing such talented professionals.

Thank you once again for your continued support and for providing us with such outstanding talent.

Sincerely,



Sri Bandaru,
Product Delivery Manager

Gate 3, Dwarakadheesh
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Kaldin.so

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