

S. A. P. D. Jain Pathashala's

Walchand Institute of Technology, Solapur

An Autonomous Institute

Department of Computer Science and Engineering

Organized by: Learning Out Loud Coding Club

Name of the Event: "AWS Bootcamp"

Date of the Event: October 10, 2024 – October 21, 2024

Poster:



Objective

The AWS Bootcamp aimed to introduce participants to cloud computing concepts, focusing on Amazon Web Services (AWS) as a leading cloud platform. Through a series of sessions, students gained hands-on experience in setting up AWS accounts, managing access controls, deploying applications, and leveraging services like Amazon S3, EC2, and Elastic Beanstalk. The event emphasized practical demonstrations to prepare participants for real-world cloud-based applications and development.

Outcomes

By the end of the bootcamp, participants were able to:

1. Understand the fundamentals of cloud computing and its service models (IaaS, PaaS, SaaS).
2. Navigate and use AWS Management Console effectively.
3. Set up secure AWS accounts with proper Identity and Access Management (IAM).
4. Deploy and manage applications using Amazon Amplify, Elastic Beanstalk, and EC2.
5. Utilize Amazon S3 for object storage, static website hosting, and secure access.

Detailed Report

Introduction:

The "AWS Bootcamp," organized by the LOL Coding Club, aimed to equip participants with foundational and advanced knowledge of Amazon Web Services (AWS) and cloud computing concepts. The bootcamp spanned multiple sessions, focusing on hands-on demonstrations and practical applications of AWS services to enhance students' skills in cloud infrastructure, security, and application deployment. Conducted successfully from October 10, 2024, to October 21, 2024, the event provided a comprehensive learning experience for all attendees.

Overview of Sessions:

Venue: Remote Center Hall Library Building

Time: 4:30 PM - 6:30 PM

Session 1: Introduction to AWS and Cloud Computing

Date: October 10, 2024

Speakers: Shruti Pawar and Parmita Patre (Final Year CSE)

The session covered the basics of cloud computing, its benefits, and service models (IaaS, PaaS, SaaS). Real-world applications of cloud platforms like Netflix and Dropbox were discussed. An introduction to AWS and its global infrastructure was provided, highlighting regions, availability zones, and pricing models. Participants learned to set up AWS accounts and secure them using MFA.

Session 2: Identity and Access Management (IAM)

Date: October 11, 2024

Speakers: Nikhil Jain and Ketaki Bidkar (Final Year CSE)

This session focused on IAM, emphasizing user management, access control, and security best practices. Demonstrations included creating IAM users and groups, setting permission boundaries, and defining roles. Students practiced configuring policies for S3 and explored the importance of avoiding root account usage in daily operations.

Session 3: AWS Amplify

Date: October 14, 2024

Speaker: Yogesh Kulkarni (Final Year CSE)

Participants were introduced to **AWS Amplify**, a tool designed for quickly building and deploying front-end applications. The session focused on setting up and deploying a React application using Amplify. Through a live demonstration, attendees learned how to configure Amplify, connect a front-end project, and deploy it to a secure hosting environment.

Session 4: Amazon S3 (Simple Storage Service)

Dates: October 16, 2024

Speaker: Irfan Shaikh (Final Year CSE)

This session introduced the concept of object storage with S3. Topics included bucket creation, versioning, and managing object properties. Participants learned to host static websites on S3, generate pre-signed URLs for secure access, and use CLI and SDK for interactions.

Session 5: AWS Elastic Beanstalk

Date: October 17, 2024

Speaker: Abhay Shankur (Final Year CSE)

The session focused on deploying a full-stack application using **AWS Elastic Beanstalk**. Participants learned to configure and deploy a React front-end with a Node.js backend, monitor application health, and manage scaling and updates through Elastic Beanstalk's dashboard. This hands-on session highlighted practical steps for deploying scalable full-stack applications efficiently.

Session 6: Understanding Amazon EC2 and Windows Virtual Machines

Date: October 18, 2024

Time: 3:00 PM - 6:15 PM

Speaker: Mr. Gautam Bet (Guest Expert)

This session introduced participants to **Amazon EC2**, focusing on its role in cloud computing, instance types, and virtual machine (VM) concepts. Theoretical discussions included understanding the flexibility of EC2 instances and their applications.

The hands-on session covered:

- Launching a **Windows EC2 instance** on AWS.
- Configuring security groups to allow remote access.
- Accessing the Windows VM through **Remote Desktop Protocol (RDP)**.
- Setting up **Internet Information Services (IIS)** and exploring the GUI environment.

Session 7: Linux Virtual Machines and Full-Stack Application Deployment

Date: October 21, 2024

Speaker: Yogesh Kulkarni (Final Year CSE)

This session focused on deploying and managing **Linux (Ubuntu) EC2 instances**. Participants explored:

- Launching an **Ubuntu EC2 instance** on AWS.
- Accessing the VM through **SSH** using terminal commands.
- Configuring the server environment for application hosting.
- Setting up the **Node.js backend** and **React front-end** on the Linux VM.
- Deploying and hosting the full-stack application.

Attendance and Participation:

The workshop witnessed an overwhelming turnout, with over 150 participants actively engaging in discussions, activities, and hands-on sessions. Students and faculty members contributed to the event's vibrant atmosphere and collaborative spirit.

Speakers:

Several speakers from the final-year CSE department, along with a guest expert, conducted the workshop:

- **Shruti Pawar and Parmita Patre:** Delivered an engaging session on the basics of cloud computing and introduced AWS's global infrastructure.
- **Nikhil Jain and Ketaki Bidkar:** Explained IAM fundamentals, including user management and security best practices, with practical demonstrations.
- **Yogesh Kulkarni:** Conducted sessions on AWS Amplify and deploying full-stack applications using Linux EC2 instances, offering hands-on guidance.
- **Irfan Shaikh:** Simplified Amazon S3 concepts through demonstrations of object storage, static website hosting, and secure access methods.
- **Abhay Shankur:** Highlighted the deployment of scalable full-stack applications using AWS Elastic Beanstalk.

- **Mr. Gautam Bet (Guest Expert):** Delivered a session on Amazon EC2, focusing on Windows virtual machines and their applications.

The collective expertise of the speakers ensured a comprehensive learning experience for all participants.

Feedback:

Participants were invited to share their feedback on the workshop content, delivery, and organization. Feedback forms were distributed and collected to assess the effectiveness of the sessions and gather insights for future improvements and enhancements.

[+ AWS Bootcamp Day-1 Feedback \(Responses\)](#)

[+ AWS Bootcamp Day-2 Feedback \(Responses\)](#)

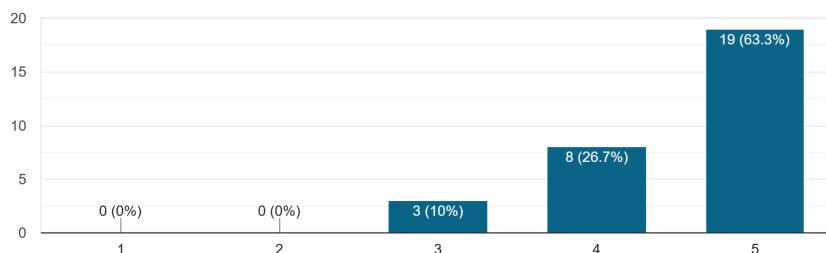
[+ AWS Bootcamp Day-3 Feedback \(Responses\)](#)

[+ AWS Bootcamp Day-6 Feedback \(Responses\)](#)

[+ AWS Bootcamp Day-7 Feedback \(Responses\)](#)

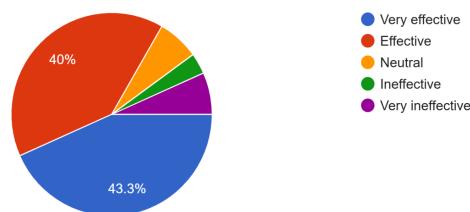
How relevant and helpful do you think it was for your career?

30 responses

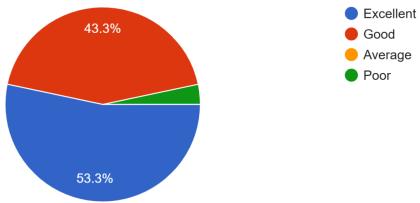


How effective was the communication from the organizers before and during the event?

30 responses



How would you rate your overall hands on experience?
30 responses



Suggestions for Improvement

What improvements would you suggest for future events?

30 responses

For Now Nothing.

Nothing

Nothing for now

Take atleast 2-3 such events..It would be better if you take the year wise like different for 2nd year , different for 3rd

Increase the pace of teaching.

No need

Everything was fine.

Nothing all good

Better coordination with students ...

Any additional comments or feedback?

13 responses

No

NA

Good Sesion

Technical team is very friendly and ready to solve all technical issues

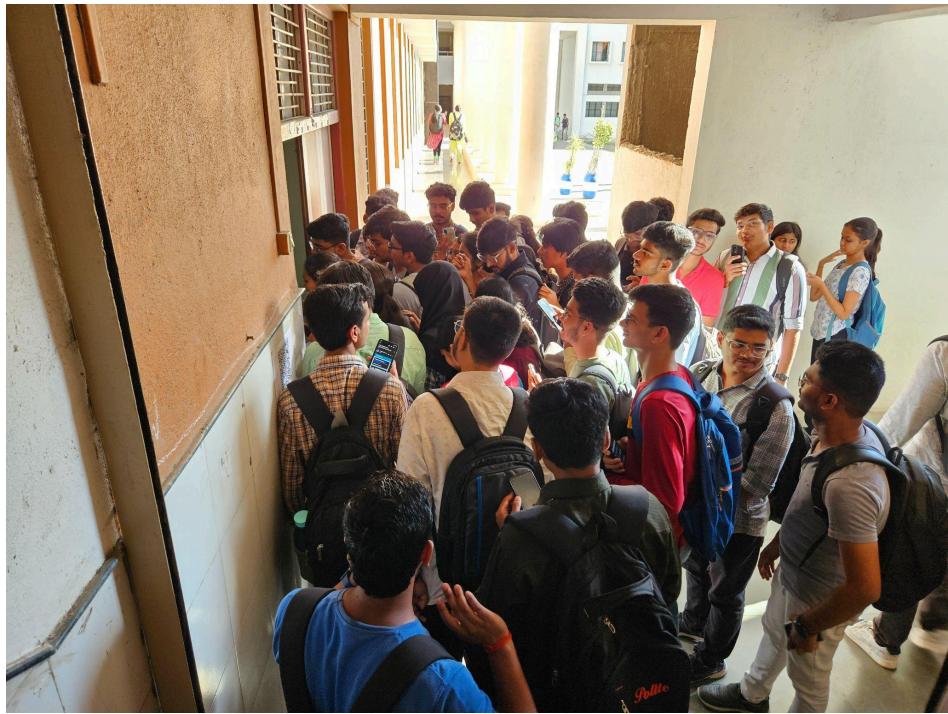
Nothing

The second year students are taking more time to follow instructions and perform actions accordingly, I would suggest to resolve the doubts of them quickly by volunteers.

Photographs:









Attendance:

Total Registrations: 167

Total Present: 159

Female: 76

Male: 83

Walchand Institute Of Technology,Solapur LOL CODING CLUB WIT AWS BOOTCAMP - ATTENDANCE												
Iumi First Name	Last Name	Branch	Year	Day1	Day 2	Day3	Day4	Day5	Day6	Day7	Day8	Day9
36 Kanchan	Jape	CSE	SY	-	-	-	-	-	-	-	-	-
37 Manoj	Pipare	IT	TY	P	-	-	-	-	-	-	-	-
38 Mitali	Mahwadkar	IT	TY	P	-	-	-	-	-	-	-	-
39 Mohammad Saad	Langde	CSE	SY	P	-	-	-	-	-	-	-	-
40 Mrunmayee	Kulkarni	E&TC	SY	-	-	-	-	-	-	-	-	-
41 Mubeen Ahemad	Attar	IT	TY	P	-	-	-	-	-	-	-	-
42 Nandini	Chinni	IT	TY	P	-	-	-	-	-	-	-	-
43 Nikita	Jirage	IT	TY	P	-	-	-	-	-	-	-	-
44 Nisha	Kulkarni	CSE	SY	-	-	-	-	-	-	-	-	-
45 Nishant	Kasture	IT	TY	P	-	-	-	-	-	-	-	-
46 Omkar	Gaware	IT	TY	P	-	-	-	-	-	-	-	-
47 Onkar	Chavan	E&TC	SY	-	-	-	-	-	-	-	-	-
48 Payal	Patil	IT	TY	P	-	-	-	-	-	-	-	-
49 Prachi	Mahindrakar	IT	TY	P	-	-	-	-	-	-	-	-
50 Priti	Korake	IT	TY	P	-	-	-	-	-	-	-	-
51 Radha	Bhargande	E&TC	SY	-	-	-	-	-	-	-	-	-
52 Raj	Shah	CSE	SY	RK	-	-	-	-	-	-	-	-
53 Rajeshwar	Kalekar	IT	TY	-	-	-	-	-	-	-	-	-
54 Rajeshwari	Tamshetti	CSE	SY	P	-	-	-	-	-	-	-	-
55 Ruchi	Raibagkar	CSE	SY	-	-	-	-	-	-	-	-	-
56 Rushika	Mane	IT	TY	P	-	-	-	-	-	-	-	-
57 Rushiraj	Birajdar	IT	TY	P	-	-	-	-	-	-	-	-
58 Rutik	Dhasade	CSE	SY	P	-	-	-	-	-	-	-	-
59 Sakshi	Shinde	CSE	SY	P	-	-	-	-	-	-	-	-
60 Sakshi	Jain	IT	TY	P	-	-	-	-	-	-	-	-
61 Sakshi	Dhoble	ECE	TY	P	-	-	-	-	-	-	-	-
62 Saleha	Ansari	IT	TY	-P	-	-	-	-	-	-	-	-
63 Samarth	Gholap	IT	TY	P	-	-	-	-	-	-	-	-
64 Samarth	Patil	E&TC	TY	P	-	-	-	-	-	-	-	-
65 Samruddhi	Gore	IT	TY	P	-	-	-	-	-	-	-	-
66 Sandip	kharate	ECE	TY	P	-	-	-	-	-	-	-	-
67 Sanika	Umdale	CSE	SY	P	-	-	-	-	-	-	-	-
68 Sanjana	Mutkiri	CSE	TY	P	-	-	-	-	-	-	-	-
69 Sariket	Hanchate	CSE	SY	P	-	-	-	-	-	-	-	-
70 Sarthak	Chatake	Mech	TY	P	-	-	-	-	-	-	-	-

Iumi First Name	Last Name	Branch	Year	Day1	Day 2	Day3	Day4	Day5	Day6	Day7	Day8	Day9
71 Sarithak	Jabade	CSE	SY	P	A	S	S	S	S	S	S	S
72 Shraddha	Hajare	E&TC	SY	-	-	-	-	-	-	-	-	-
73 Shrikant	Jadhav	IT	TY	P	-	-	-	-	-	-	-	-
74 Shruti	Dasari	IT	TY	P	-	-	-	-	-	-	-	-
75 Shubham	Charate	ECE	TY	P	-	-	-	-	-	-	-	-
76 Shubham	Sakhare	IT	TY	P	-	-	-	-	-	-	-	-
77 Siddhant	Kyama	CSE	SY	P	-	-	-	-	-	-	-	-
78 Siddhi	Thokade	E&TC	TY	-	-	-	-	-	-	-	-	-
79 Soham	Rangdal	IT	SY	P	-	-	-	-	-	-	-	-
80 Suyog	Habbu	CSE	SY	P	-	-	-	-	-	-	-	-
81 Swaraj	Kale	CSE	TY	P	-	-	-	-	-	-	-	-
82 Taiseen	Momin	IT	TY	P	-	-	-	-	-	-	-	-
83 Tanisha	Godha	ECE	TY	P	-	-	-	-	-	-	-	-
84 Tejas	Deshmane	CSE	TY	P	-	-	-	-	-	-	-	-
85 Tejas	Karade	CSE	TY	P	-	-	-	-	-	-	-	-
86 Tejas	Mamdayal	CSE	SY	P	-	-	-	-	-	-	-	-
87 Uday	Ige	ECE	TY	P	-	-	-	-	-	-	-	-
88 Uday	Gund	CSE	SY	P	-	-	-	-	-	-	-	-
89 Umme Aiman	Lakkot	IT	TY	P	-	-	-	-	-	-	-	-
90 Vaishnavi	Diksangi	IT	TY	P	-	-	-	-	-	-	-	-
91 Vaishnavi	Chavan	IT	TY	P	-	-	-	-	-	-	-	-
92 Vaishnavi	Shirgure	IT	TY	P	-	-	-	-	-	-	-	-
93 Varun	Kumbar	CSE	SY	P	-	-	-	-	-	-	-	-
94 Yash	Kancharwale	IT	TY	P	-	-	-	-	-	-	-	-
95 Yashowardhan	Magdum	IT	TY	P	-	-	-	-	-	-	-	-
96 Yessha	Bapna	CSE	SY	P	-	-	-	-	-	-	-	-
97 Vaibhavi	Kothawale	CSE	TY	P	-	-	-	-	-	-	-	-
98 Madhurta	Sharma	CSE	SY	P	-	-	-	-	-	-	-	-
99 Sarthak	Kotawar	IT	TY	P	-	-	-	-	-	-	-	-
100 Sakshi	Bhandari	CSE	SY	P	-	-	-	-	-	-	-	-
101 Shruti	Akki	IT	TY	P	-	-	-	-	-	-	-	-
102 Manashree	Shahapure	IT	TY	P	-	-	-	-	-	-	-	-
103 Sakshi	Shelake	IT	TY	P	-	-	-	-	-	-	-	-
104 Gouri	Kulkarni	IT	TY	P	-	-	-	-	-	-	-	-
105 Pratham	Jain	CSE	SY	P	-	-	-	-	-	-	-	-

Sanika Rokade

Walchand Institute Of Technology,Solapur LOL CODING CLUB WIT AWS BOOTCAMP - ATTENDANCE													
Lumi	First Name	Last Name	Branch	Year	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
M	106 sumit	jain	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	107 Swapnali	Sontake	Entc	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	108 Jyoti	Bafna	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	109 Rishikesh	Jogi	CSE	SY	P	-	✓	✓	✓	✓	✓	✓	✓
M	110 Shruti	Koli	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	111 Sharda	soul	Deshpande	IT	SY	P	-	✓	✓	✓	✓	✓	✓
M	112 Ronak	Jain	CSE	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	113 Fazeen	Patel	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	114 Sanika	Ramekar	Entc	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	115 snehal	Padma	Entc	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	116 Swati	Nile	Entc	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	117 Siddhi	Agarkar	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	118 Abhishek	Badvane	CSE	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	119 Rohit	Umdale	CSE	SY	P	-	✓	✓	✓	✓	✓	✓	✓
M	120 Harsh	Bhugda	ENTC	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	121 Chetan	Dodal	CSE	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	122 Pratiksha	Patwar	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	123 age soham	Nipunge	ECE	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	124 Harsh	Mahajan	CSE	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	125 Munral	khade	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	126 Kshitij	ghode	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	127 Harsh	Battalwar	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	128 Bhagyodaya	Bamgonda	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	129 Paras	Patil	ECM	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	130 Monika	Gidwani	CSE	SY	P	-	✓	✓	✓	✓	✓	✓	✓
M	131 Shivam	Acham	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	132 Saikartik	Bomdayal	IT	SY	P	-	✓	✓	✓	✓	✓	✓	✓
M	133 Bhavesh	Gandhi	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	134 Pranav	Bhojkar	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	135 Harsh	Randive	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	136 Padmaja	Yengire	ENTC	SY	P	-	✓	✓	✓	✓	✓	✓	✓
M	137 Bhumi	Upadhyay	-	-	P	-	✓	✓	✓	✓	✓	✓	✓
M	138 Rajesh	Nandal	-	-	P	-	✓	✓	✓	✓	✓	✓	✓
M	139 Rahul	Magdum	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓
M	140 Chetan	Jain	IT	TY	P	-	✓	✓	✓	✓	✓	✓	✓