

Masterclass



# Machine Learning Operations (MLOps)

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sarath@psitrontech.com

6:30 PM - 11 PM IST  
8:00 AM - 12:30 PM EST  
2:00 PM - 6:30 PM CET

**May**

✓ 27th Sat & 28th Sun

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## MLOps

**ONLINE**

MASTERCLASS



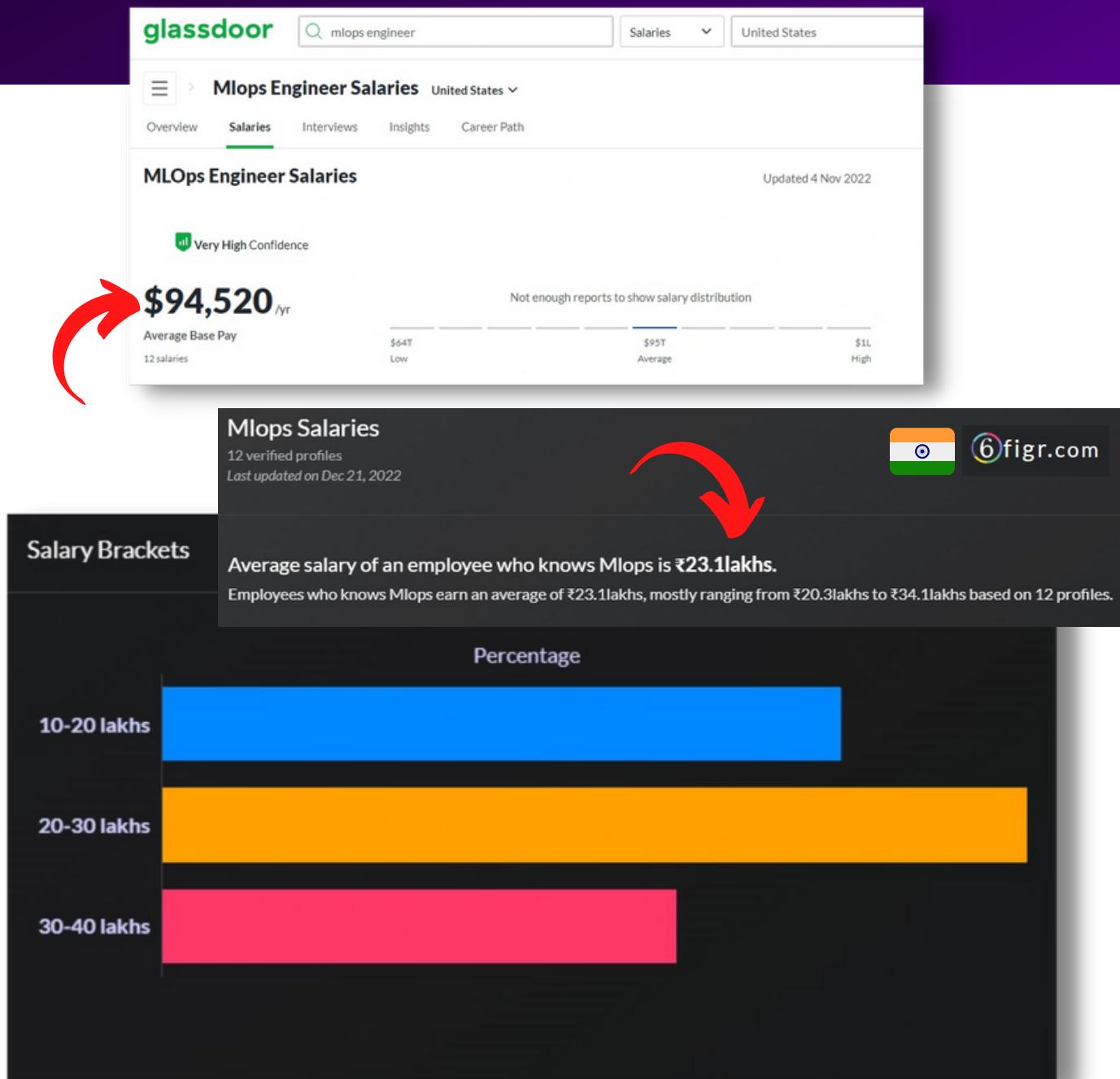
Jenkins



# Machine Learning Operations

## Hottest Job of 21st Century

Machine learning and artificial intelligence is a field that drives major innovations across different industries. It is predicted that in 2023, the AI market will reach \$500 billion, and in 2030, \$1,597.1 billion in size. This means that machine learning technologies will continue to be in high demand in the near future.



# About us



5000+Trained



100+ Workshops & courses



100+ Countries' Learners

## Who is Psitron Technologies ? Why should you care?

### About Psitron Technologies:

Psitron Technologies is an IoT and AI company. Our mission at Psitron is to connect the world with innovative technologies. Psitron has responsibility for developing innovative innovations for addressing current problems in industries, especially focusing on industry 4.0 solutions.

### Supported By



विज्ञान एवं प्रौद्योगिकी विभाग  
DEPARTMENT OF  
**SCIENCE & TECHNOLOGY**



### Awards/ Honour



FKCCI Bangalore best  
Startup award 2018



Living Talent, Dubai finalist of  
international level innovation  
competition 2018



Hilti International innovation  
competition finalist.



Psitron is supported by AWS  
activate program



IoT interThrone winner

# About Program

Looking for getting started with Hands-on **Machine Learning Operations (MLOps)** with a real-time project, then you've come to the right place. As per the market survey, **2023** is the year of MLOps and would become the mandate skill set for Enterprise ML projects.

Corporates have been experimenting with machine learning models for a long time, **85%** of Machine Learning projects do not reach production. In addition, the MLOps have exponentially grown in the last few years. MLOps was estimated at **\$23.2 billion for 2019** and is projected to reach **\$126 billion by 2025**. Therefore, MLOps knowledge will give you numerous professional opportunities helps organizations to bring in real business value

## Key Highlights

- **10 Hours** of Live sessions from Industrial Experts
- **15+** Live Hands-on Labs
- **2 Real-time** industrial projects
- One-on-One Debugging with Industry Mentors

## Program Pedagogy



### Instructor led Training

Get trained by top industry experts



### Community support

Speak to community anytime and clarify your queries instantly.



### Projects and Exercises

Get real-world experience through Projects



### Live Hands-on

Hands-on exercises, project work, quizzes, and capstone projects

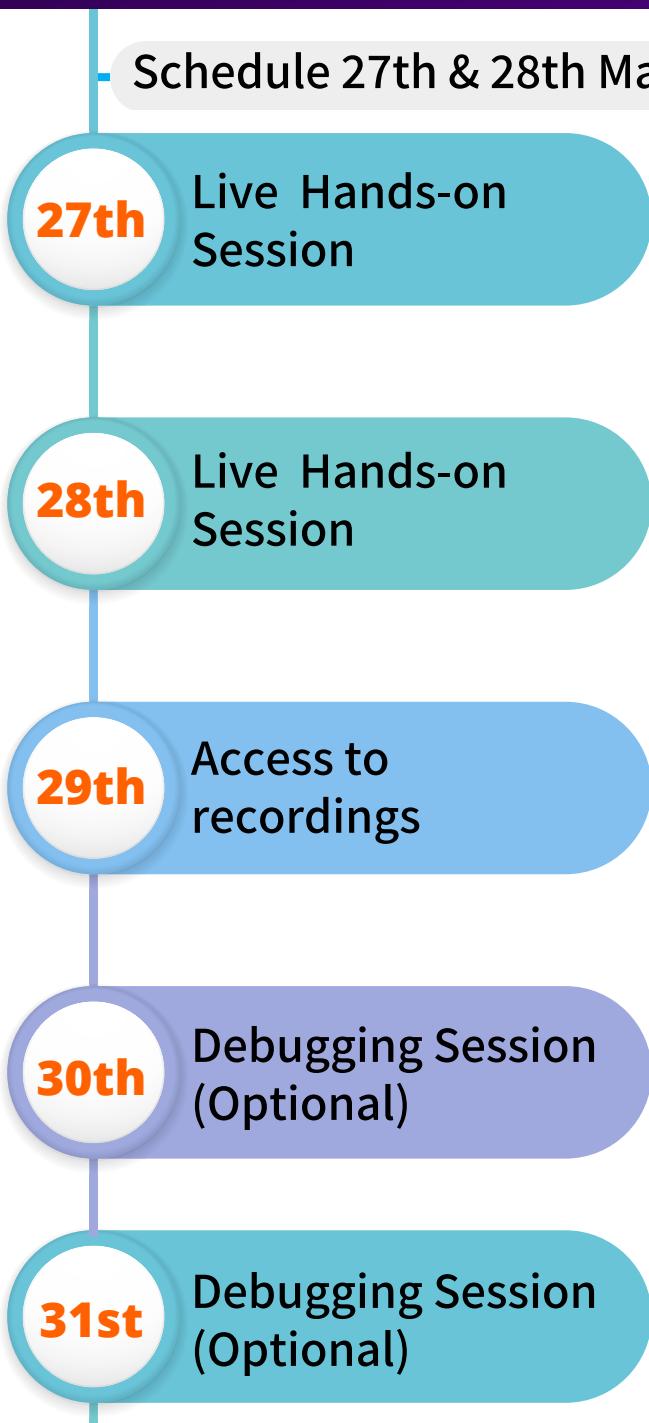


### Peer Networking and Group Learning

Improve your professional network and learn from peers through our innovative Peer WhatsApp & community groups.

# Who Can Apply for the Masterclass??

- Data Scientists
- Data engineers & Data Analysts
- Research/Applied Scientists
- ML engineers
- DevOps engineers
- Aspiring MLOps Professionals and Enthusiasts
- Machine Learning professionals who want to deploy models to production
- Anyone who wants to learn AWS, DVC, Feast, MLFlow etc
- Individuals interested in the data and the AI industry



# Program Curriculum

## Curriculum

27th May

6:30 PM to 11 PM

### Machine Learning Operations(MLOps) Introduction

- What is MLOps?
- MLOps Motivation
- MLOps challenges
- MLOps challenges similar to DevOps
- MLOps Components
- Automated ML pipelines vs CI/CD ML pipelines
- Different Roles involved in MLOps (ML Engineering + Operations)
- Machine Learning Life Cycle
- MLOps Vs DevOps
- Different tools for MLOps
- Benefits Of AWS MLOps

### Getting started with AWS for Machine Learning

- Tour of AWS cloud platform *[Hands-on]*
- The AWS ML Stack
- AWS SageMaker
- AWS AI services

### Amazon S3

- Amazon S3 introduction
- Amazon S3 for Machine Learning *[Hands-on]*
- Creating your first S3 Bucket *[Hands-on]*
- Storage Class in Amazon S3
- S3 Lifecycle, S3 Encryption & S3 Security

# Program Curriculum

## AWS SageMaker

- Introduction to Amazon Sagemaker
- Using Amazon S3 along with Sagemaker [*Hands-on*]
- Built-in algorithms
- Amazon Elastic Container Service (Amazon ECS)
- Amazon SageMaker Notebooks and SDK [*Hands-on*]
- Notebook instance type, IAM Role & VPC [*Hands-on*]
- Build, Train & deploy ML Model using TensorFlow [*Hands-on*]
- Endpoint & Endpoint configurations [*Hands-on*]
- Generate inference from deployed model [*Hands-on*]

28th May

6:30 PM to 11 PM

## CI/CD Tools in AWS

- AWS CodeCommit [*Hands-on*]
- AWS CodePipeline [*Hands-on*]
- AWS CodeBuild [*Hands-on*]

## Sagemaker Studio tools

- Introduction Sagemaker pipelines
- Containers for Amazon SageMaker
- AWS MLOps - ML Model Monitoring [*Hands-on*]
- AWS MLOps - Amazon Sagemaker Feature Store
- AWS MLOps - Post-Deployment Challenges

## AWS MLOps - Build, Train & deploy ML Model

- SageMaker Studio & SageMaker domain [*Hands-on*]
- SageMaker Projects [*Hands-on*]
- Repositories [*Hands-on*]
- Pipelines & Graphs [*Hands-on*]
- Experiments [*Hands-on*]
- Model groups [*Hands-on*]
- Endpoints [*Hands-on*]

# Program Curriculum

## Tools to Master



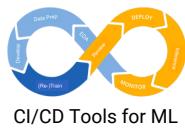
AWS CodeCommit



AWS CodeDeploy



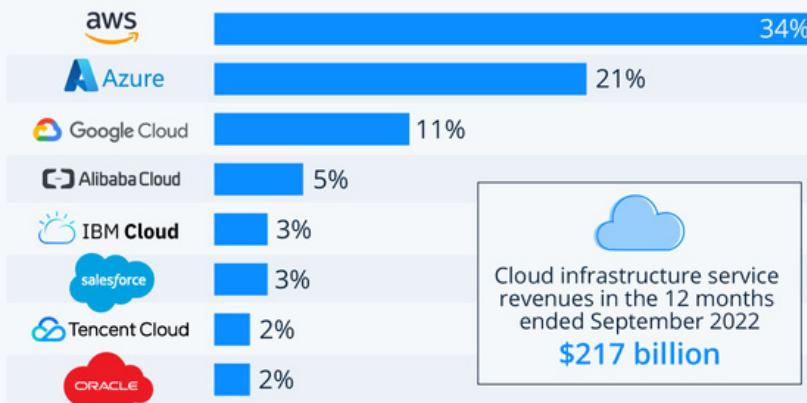
AWS CodePipeline



## Why Cloud ?

### Amazon, Microsoft & Google Dominate Cloud Market

Worldwide market share of leading cloud infrastructure service providers in Q3 2022\*



\* includes platform as a service (PaaS) and infrastructure as a service (IaaS) as well as hosted private cloud services

Source: Synergy Research Group



statista

# Program Fee



~~₹ 5,999/-~~  
**₹ 2,999/-**

**Per Person**  
Indian participants

- ✓ Live Sessions
- ✓ Access to recordings
- ✓ Debugging Session
- ✓ Access to Masterclass materials
- ✓ Community support
- ✓ 10% OFF for **MLOps specialization course**
- ✓ FREE resources
  - Access to webinars
  - Hands-on Guides
  - FREE eBooks
  - FREE interview question

**Register Now!**

~~\$79.9~~  
**\$49.9**

**Per Person**  
International Participant

- ✓ Live Sessions
- ✓ Access to recordings
- ✓ Debugging Session
- ✓ Access to Masterclass materials
- ✓ Community support
- ✓ 10% OFF for **MLOps specialization course**
- ✓ FREE resources
  - Access to webinars
  - Hands-on Guides
  - FREE eBooks
  - FREE interview question

**Register Now!**



Register as a group of **2 or more** and get **10% OFF** per person on registrations.

# Frequently Asked Questions

## Frequently asked questions:

1. Do we need to attend all sessions for both days?

*Yes, All registered participants have to attend all the sessions.*

2. Whether Masterclass recording video will be sent to participants?

*Yes, Masterclass recorded videos will be sent to all participants.*

*Note: You will have access for 6 Months after the Masterclass*

3. What about Certificate?

*All registered participants will get a digital certification copy signed by an Instructor from Psitron Technologies Pvt. Ltd.*

4. What other opportunities?

*Every registered participant will be added to our community groups after the Masterclass, with possibilities to explore much about ML/AI/MLOps, AWS, Azure, GCP etc.*

5. Opportunity for students?

*Students will give the opportunity to work with our team as an intern for one month on real-time industrial projects for no cost.*

6. What are the prerequisites?

*Any person from a science & engineering background can attend this Masterclass, No programming expertise is needed.*

# Glimpse of our happy participants



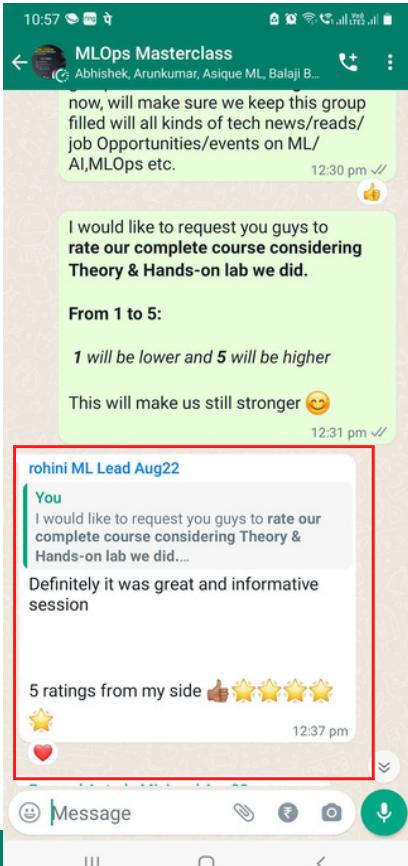
**eventbrite**

★ 4.2  
33 reviews



Events High

Reviews For Organizer 4.7 ★ (20)



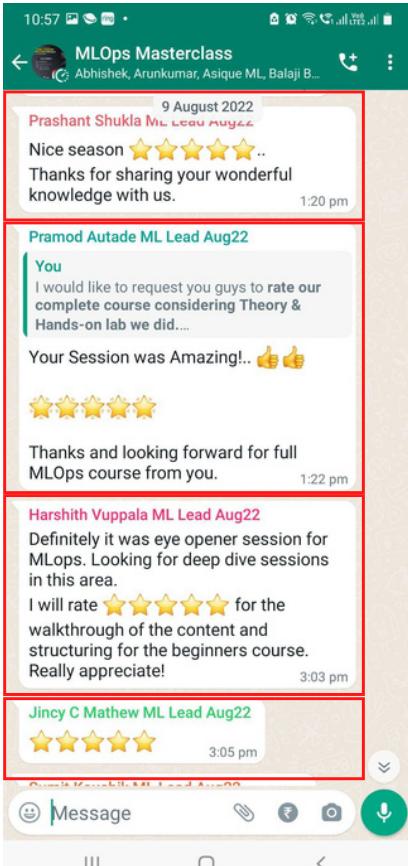
10:57 9 August 2022

Prashant Shukla ML Lead Aug22  
Nice season ★★★★★...  
Thanks for sharing your wonderful knowledge with us.

Pramod Autade ML Lead Aug22  
You  
I would like to request you guys to rate our complete course considering Theory & Hands-on lab we did....  
Your Session was Amazing!..

Harshith Vuppala ML Lead Aug22  
Definitely it was eye opener session for MLOps. Looking for deep dive sessions in this area.  
I will rate ★★★★★ for the walkthrough of the content and structuring for the beginners course.  
Really appreciate!

Jincy C Mathew ML Lead Aug22  
★★★★★



10:57 9 August 2022

Sumit Kaushik ML Lead Aug22  
Thnx... 5 rating from me

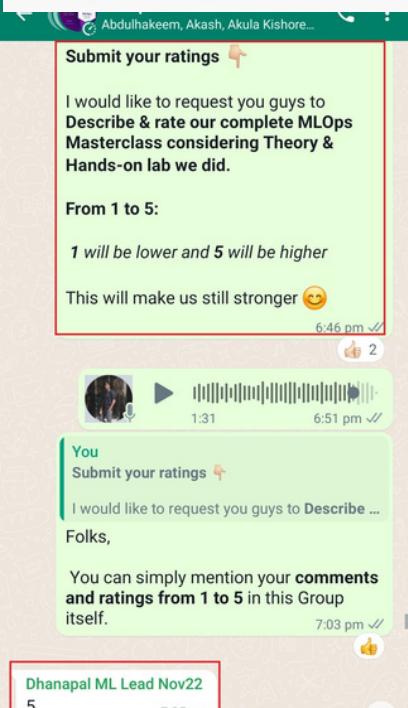
Collins Onyemaobi ML Lead Aug22  
Thanks

Rama Kotipatrungi ML Lead Aug22  
It is 5

Priyanka Verma ML Lead Aug22  
You  
I would like to request you guys to rate our complete course considering Theory & Hands-on lab we did....  
It's 5. 5

Arunkumar Duraimani ML Lead Aug22  
You  
I would like to request you guys to rate our complete course considering Theory & Hands-on lab we did....

Nibin Joseph ML Lead Aug22  
Please sent the link to your portal where we could give the ratings



Abdulhakeem, Akash, Akula Kishore...

Submit your ratings

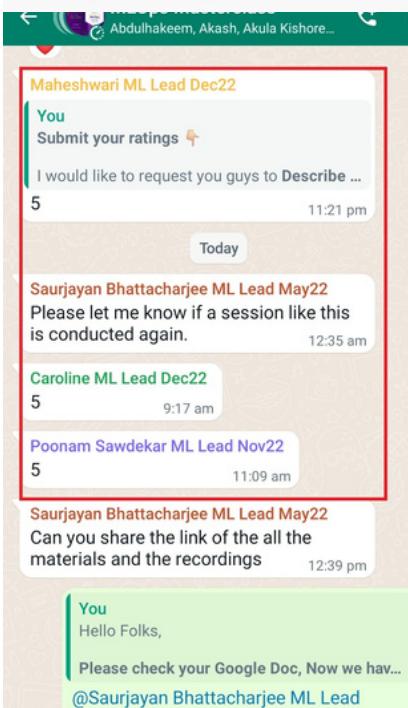
I would like to request you guys to Describe & rate our complete MLOps Masterclass considering Theory & Hands-on lab we did.

From 1 to 5:  
1 will be lower and 5 will be higher  
This will make us still stronger

You  
Submit your ratings

I would like to request you guys to Describe ...  
Folks,  
You can simply mention your comments and ratings from 1 to 5 in this Group itself.

Dhanapal ML Lead Nov22  
5



Abdulhakeem, Akash, Akula Kishore...

Maheshwari ML Lead Dec22  
You  
Submit your ratings

I would like to request you guys to Describe ...

Saurjayan Bhattacharjee ML Lead May22  
Please let me know if a session like this is conducted again.

Caroline ML Lead Dec22  
5

Poonam Sawdekar ML Lead Nov22  
5

Saurjayan Bhattacharjee ML Lead May22  
Can you share the link of the all the materials and the recordings

You  
Hello Folks,  
Please check your Google Doc, Now we hav...  
@Saurjayan Bhattacharjee ML Lead May22 ,please check your Email,we have

# Glimpse of our happy participants

**Srinivas ML Lead Jan20:**

- Shows a certificate for AWS Certified Machine Learning - Specialty.
- Message: "Done with my certification last week"
- Response: "Wow 🤩"
- Message: "This is a good news from me thanks for sharing this srinivas."
- Response: "Congratulations once again 🎉"
- Message: "If you don't mind can you share this in our group, so this can encourage others to clear the certification. Please"

**Psitron ML/AI:10:**

- Message: "Thanks for adding @Akhil ML Lead July21"
- Response: "Sure thank you sarath... I recently started learning advanced python, your session really helps , please share any learning repositories in GitHub of yours if possible... Just a suggestion - some more detailed comments in your code would really help from learning perspective"
- Message: "Great session"
- Response: "Solid 4... For 10 hrs"

**Machine Learning Course 3:**

- Message: "You can just reply to this message by typing number"
- Response: "Madhana Mohan ML Lead May21"
- Message: "I would like to request you guys to rate our complete course considering Theory & Hands-on lab we did."
- Response: "From 1 to 5: 1 will be lower and 5 will be higher"
- Message: "You can just reply to this message by typing number"
- Response: "Madhana Mohan ML Lead May21"
- Message: "I would like to request you guys to rate our complete course considering Theory & Hands-on lab we did...."
- Response: "4.5"

**Niranjan ML Lead July21:**

- Message: "Ashok Kumar ML Lead July21"
- Response: "Rating:5 Thanks for the workshop. Teaching & Presentation skills - Very Good."

**Subham Kumar Roy:**

- Profile: "Subham Kumar Roy 3rd+ Core STEM Professional @ PwC IAC 1d · Edited · 10:10 pm"
- Text: "Businesses are driven by data and they are looking to artificial intelligence (AI) for the future of data management and analysis. In many ways, #AI and #cloud computing make the perfect match for data driven innovation."

**Machine Learning Course 3:**

- Message: "Hello Folks,"
- Response: "I would like to request you guys to rate our complete course considering Theory & Hands-on lab we did."
- Message: "From 1 to 5: 1 will be lower and 5 will be higher"
- Response: "@Ashok Kumar ML Lead July21@Ashok MI Lead July21@Dr Shaker ML Lead Sep21@Jugal Sharma ML Lead Sep21@Patricia ML Lead July21"
- Message: "This will help us to shape ourselves better."

**Ashok Kumar ML Lead July21:**

- Message: "Theory: 5 Hands-on: 5"

**Sridhar Hosur Lead ML April21:**

- Message: "4.5... bro"

**Gobi WP:**

- Profile: "Gobi WP 5 stars @Sarah Kumar 8:14 pm"
- Text: "Thank you so much @Gobi WP 😊"

**Luc ML Lead Sep21:**

- Message: "5 10:22 am"
- Response: "Thank you so much for your feedback 😊 @Luc ML Lead Sep21 10:38 am

**Dr Shaker ML Lead Sep21:**

- Message: "Theory: 4 Hands-on: 5 11:20 am"

**Jugal Sharma ML Lead Sep21:**

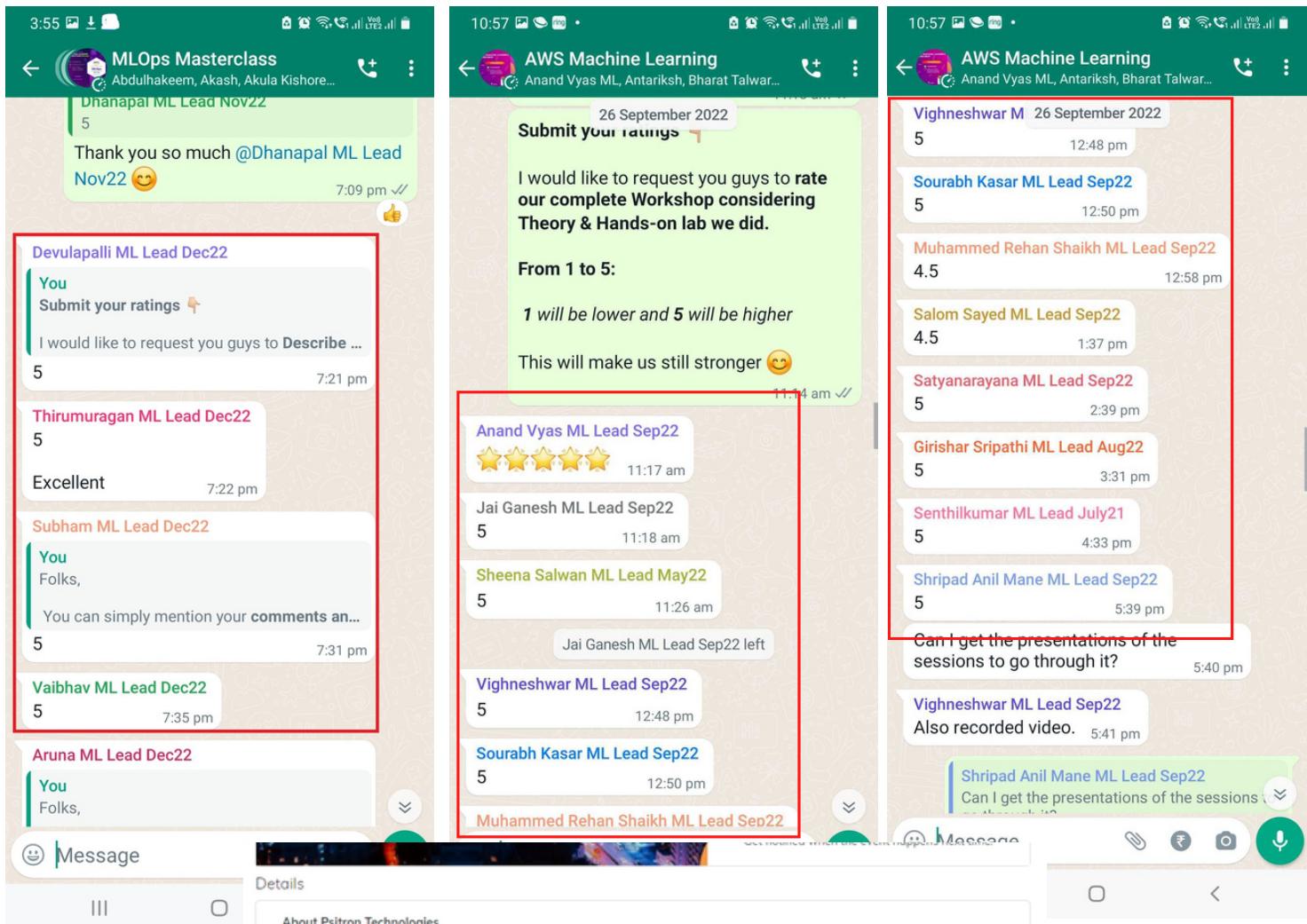
- Message: "Theory ★★★★★ Hands-on ★★★★★"
- Response: "Thank you so much @Jugal Sharma ML Lead Sep21 for taking your time to review us. 😊 10 October 2021"

**Certificate of Completion:**

- Header: "SUBHAM KUMAR ROY"
- Text: "For completing the Two-day workshop on Machine Learning using the AWS cloud platform, and demonstrating the ability to explain the following:
- List: "Build, train, and deploy machine learning models • Using Amazon S3 • Using Amazon SageMaker • Amazon Machine Learning Services"
- Text: "SARATHKUMAR C, FOUNDER & CEO, PSITRON TECHNOLOGIES PVT.LTD."
- Text: "20th & 21st Nov 2021 DATE"

[Register Now](#)

# Glimpse of our happy participants



**Details**

**About Psitron Technologies**

Psitron Technologies is an IoT and AI startup. Our mission at Psitron is to connect the world with innovative technologies. Psitron has responsibility for developing innovative innovations for addressing current problems in industries, especially focusing on Industry 4.0 solutions.

**Do you know?**

According to a Gartner report, Artificial Intelligence (AI) is estimated to pave the way for close to 2.3 million opportunities in upcoming years. And if you look at a report from Indeed, vacancies in the realm of artificial intelligence has doubled over the last three years.

[+ Show More](#)

**Map & Directions**

CIDA #22, 1st A Cross Rd, Srinivasanagar, Hanumanthnagar, Banashankari Stage I, Banashankari, Bengaluru, Karnataka 560019, India

**Reviews 4.6★ (5)**

**★★★★★** It was insightful. Recommended for beginners!! - by Marioj for Machine Learning & Artificial Intelligence in Amazon Web Services Workshop - With SarathKumar. Wed, 19 Feb

**★★★★★** Thanks for providing Hands-on workshop, really informative & fun - by Prabhu for Machine Learning & Artificial Intelligence In Amazon Web Services Workshop - With SarathKumar. Mon, 17 Feb

**★★★★★** The workshop was more informative & Hands-on, had a good experience in exploring AWS machine learning services. - by Meenaa for Machine Learning & Artificial Intelligence In Amazon Web Services Workshop - With SarathKumar. Mon, 17 Feb

# Glimpse of our happy participants



Sun, 16 Feb

Explained in very simple language. Looking forward for more workshops - by Usha for Machine Learning & Artificial Intelligence in Amazon Web Services Workshop - With SarathKumar .

- Show Less

Reviews For Organizer **4.7★** (20)

[Write a Review](#)



Wed, 19 Feb

It was insightful. Recommended for beginners!! - by Manoj for Machine Learning & Artificial Intelligence in Amazon Web Services Workshop - With SarathKumar organized by SHARATH KUMAR .



Mon, 17 Feb

Thanks for providing Hands-on workshop, really informative & fun - by Prabhu for Machine Learning & Artificial Intelligence in Amazon Web Services Workshop - With SarathKumar organized by SHARATH KUMAR .



Mon, 17 Feb

The workshop was more informative & Hands-on, had a good experience in exploring AWS machine learning services. - by Meena for Machine Learning & Artificial Intelligence in Amazon Web Services Workshop - With SarathKumar organized by SHARATH KUMAR .



Sun, 16 Feb

Got a good intro to AWS. It was great. - by Kiran Pai for Machine Learning & Artificial Intelligence in Amazon Web Services Workshop - With SarathKumar organized by SHARATH KUMAR .



Sun, 16 Feb

Explained in very simple language. Looking forward for more workshops - by Usha for Machine Learning & Artificial Intelligence in Amazon Web Services Workshop - With SarathKumar organized by SHARATH KUMAR .



Mon, 30 Dec

Really a workshop was good to get started with IoT & AWS - by Radha for Internet of things (IoT) in Amazon Web Services



Mon, 30 Dec

Really a workshop was good to get started with IoT & AWS - by Radha for Internet of things (IoT) in Amazon Web Services Workshop - With SarathKumar organized by SHARATH KUMAR .



Tue, 12 Nov

The event was real good. Sharath has explained the things in the short span of time very well.I keep looking for more event like this - by Praveen S for Machine Learning & Artificial Intelligence in AWS - With SarathKumar organized by SHARATH KUMAR .



Fri, 25 Oct

GREAT - by Raghu for Internet of things (IoT) in Amazon Web Services Workshop - With SarathKumar organized by SHARATH KUMAR .



Fri, 04 Oct

Best workshop for peoples one who looking to start their IoT career. - by Latha for Internet of things (IoT) in Amazon Web Services Workshop - With SarathKumar organized by SHARATH KUMAR .



Fri, 04 Oct

Great workshop, Had a good experience connecting IoT device to cloud. - by Manjunath for Internet of things (IoT) in Amazon Web Services Workshop - With SarathKumar organized by SHARATH KUMAR .



Psitron

## Contact Us

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Psitron Technologies Pvt. Ltd.



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sarath@psitrontech.com



[www.psitrontech.com](http://www.psitrontech.com)

*P.S. - Today, don't play it safe, play it smart.*

[Register Now](#)