



**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
Pennalur, Sriperumbudur- 602117

(AUTONOMOUS – AFFILIATED TO ANNA UNIVERSITY)

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Webinar**

**on**

**Deployment of Machine Learning Models in AWS using Flask  
Framework**

**04.07.2020**

**A Report**

*Submitted to the principal*  
*[Signature]*  
*To: HOD-INT*  
*Noted*  
*[Signature]*  
*6/11*



JAYANTHI D IT <jayanthi@svce.ac.in>

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## Webinar on 4/7/2020-Reg.

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**HOD IT** <hodit@svce.ac.in>

Tue, Jun 30, 2020 at 11:38 AM

To: Principal SVCE <principal@svce.ac.in>, HODs Group <hod@svce.ac.in>, Faculty Group <svcefaculty@svce.ac.in>

Cc: ARUN PRAKASH <arunprakash@svce.ac.in>

Dear sir/madam,

We are very happy in inviting you all for the online webinar titled

Deployment of machine learning models in AWS using Flask framework.

Speaker: Mr.K.B.Sundarakumar, SSN College of engineering to be held on 4th July 2020 between 11am to 12.30pm.

Herewith I have attached the brochure for your kind reference.

Thanks and regards,

Coordinators

Jayanthi D

Devi N

Leela Rani P

A R Guru Gokul and

Dr.V.Vidhya

HOD/I



**ML FLASK Webinar.pdf**

1480K

# SRI VENKATESWARA COLLEGE OF ENGINEERING



(AICTE APPROVED AND NAAC ACCREDITED)  
AUTONOMOUS - AFFILIATED TO ANNA UNIVERSITY  
PENNALUR, SRIPERUMBUDUR - 602 117, TAMIL NADU



DEPARTMENT OF  
INFORMATION TECHNOLOGY

(NBA Accredited)

PRESENTS

WEBINAR ON

## DEPLOYMENT OF MACHINE LEARNING MODELS IN AWS USING FLASK FRAMEWORK



By

MR. K.B.SUNDHARA KUMAR

Assistant Professor

Department of Information Technology  
SSN college of engineering



### PATRON

Dr. S Ganesh Vaidyanathan  
Principal, SVCE

### CONVENER

Dr. V. Vidhya  
HOD - IT

### CO-ORDINATORS

Ms. D. Jayanthi, AP - IT  
Ms. N. Devi, AP - IT  
Ms. P. Leela Rani, AP - IT  
Mr. AR. Guru Gokul, AP - IT



4<sup>th</sup> July, 2020

Saturday



11:00 am to  
12:30 pm

### FREE REGISTRATION

<https://forms.gle/ahLW7kWPycNkcGvp8>



E-Certificates will be provided to all the participants



**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
Pennalur, Sriperumbudur Taluk - 602117

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Solicit your esteemed presence for the**

**Online Webinar**

**on**

**“Deployment of Machine Learning Models in AWS using Flask Framework”**

**by**

**Mr Sundharakumar K B**

**Assistant Professor,**

**Department of Information Technology,**

**SSN College of Engineering**

**Chennai.**

**Date : 4<sup>th</sup> July 2020**

**Time : 11.00 AM to 12.30PM**

**Venue : Google meet link**

<https://meet.google.com/ife-tpa-rrt>



# SRI VENKATESWARA COLLEGE OF ENGINEERING

Pennalur, Sriperumbudur Taluk – 602117

## AGENDA

**DATE** : 04.07.2020

**TIME** : 11.00 AM

**VENUE** : **Google meet link** <https://meet.google.com/ife-tpa-rrt>

- ❖ Welcome Address
- ❖ Introduction of Chief Guest
- ❖ Short note by HOD
- ❖ Lecture by Chief Guest
- ❖ Questionnaire Feedback from Participants
- ❖ Vote of Thanks

### Workshop Co-ordinators

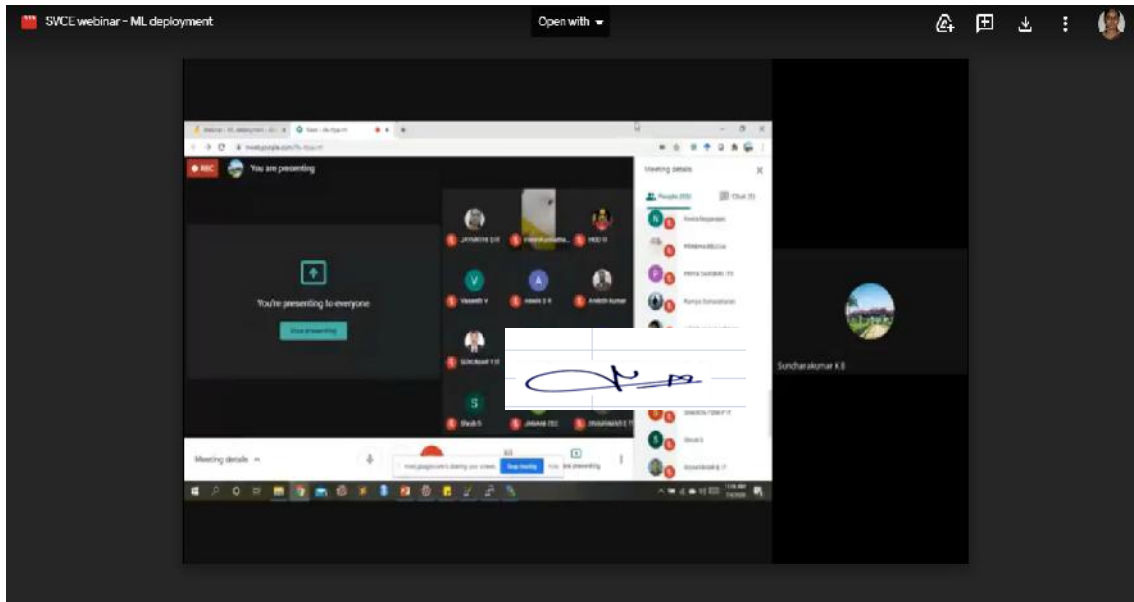
Ms.D.Jayanthi, AP/INT  
Ms.N.Devi , AP/INT  
Ms.P.Leela Rani , AP/INT  
Mr.A R Guru Gokul, AP/INT



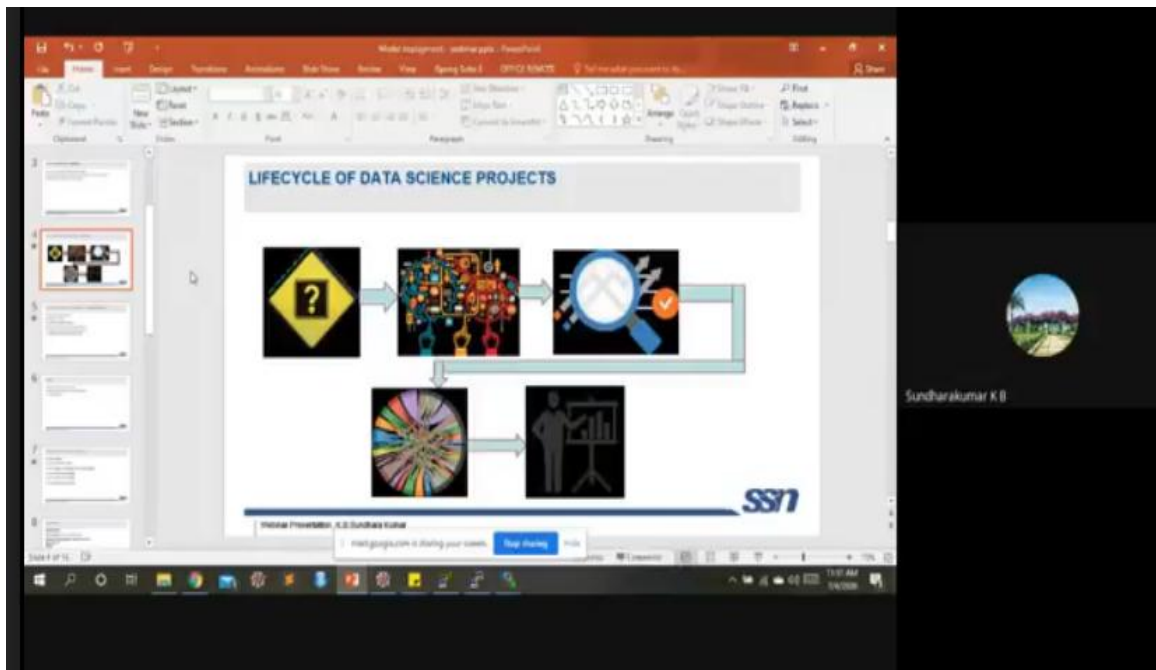


# MEMORIES

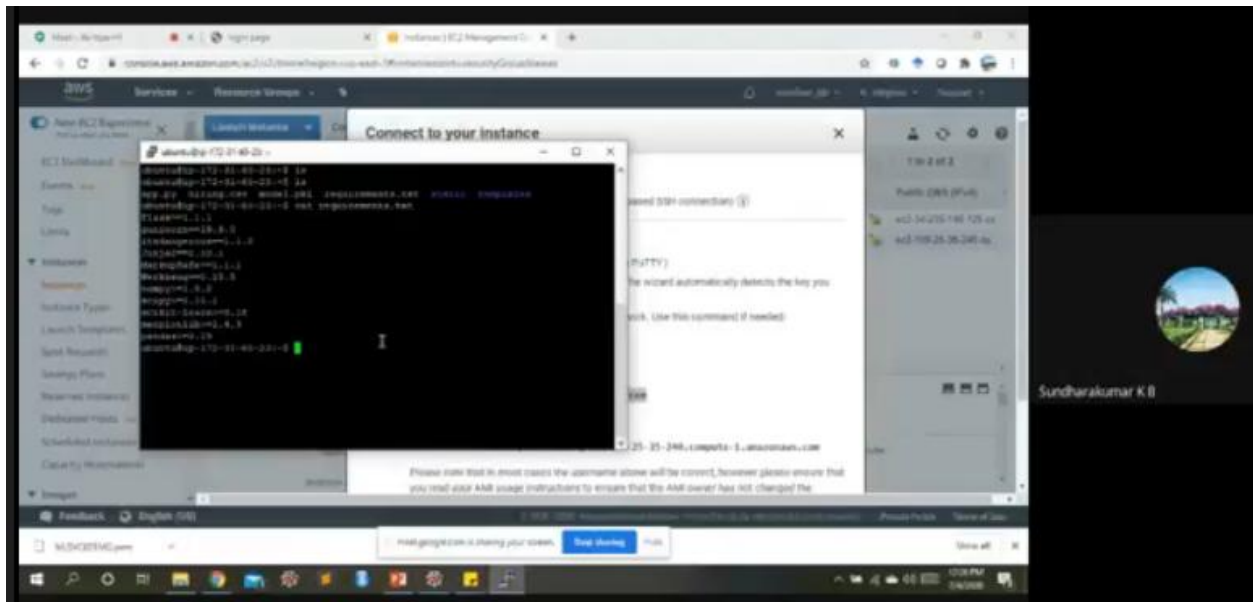
## Introduction to Chief Guest – 04-07-2020



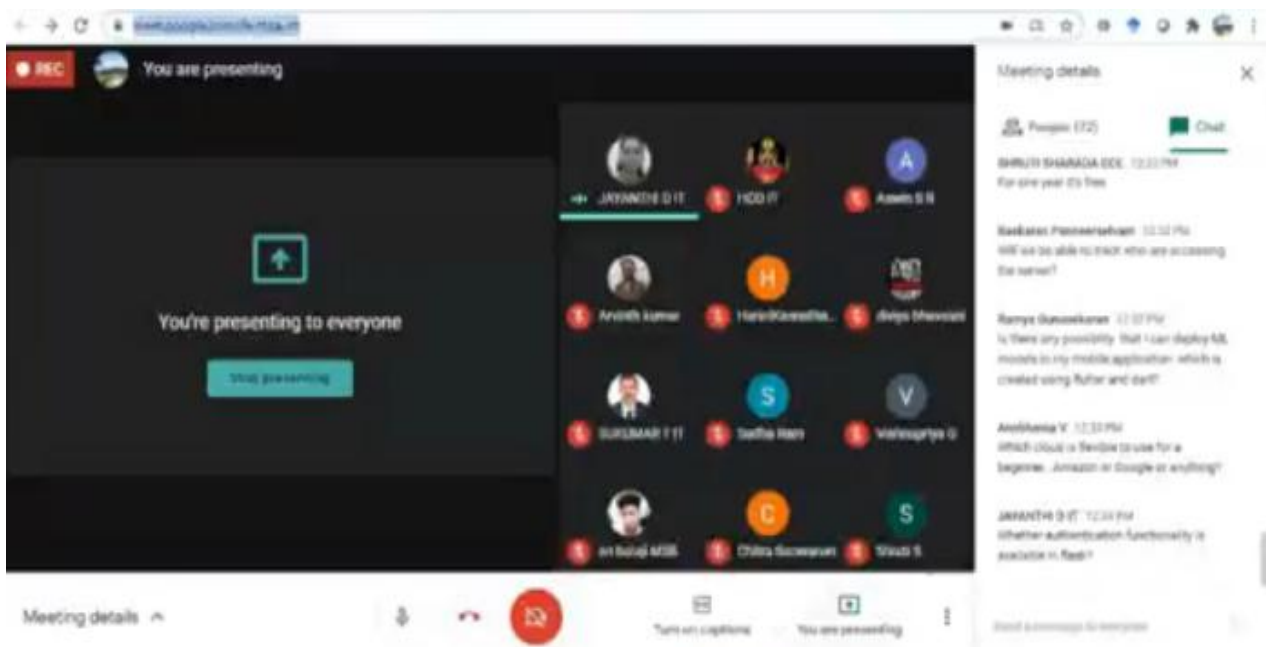
## Talk by Chief Guest – 04-07-2020



## Talk by Chief Guest – 04-07-2020



## Vote of Thanks – 04-07-2020





		Attendance		
7-4-2020 11:40:41	7-4-2020 11:58:09	7-4-2020 12:22:45	7-4-2020 12:35:11	7-4-2020 12:41:37
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JAYANTHI D IT	JAYANTHI D IT	JAYANTHI D IT	JAYANTHI D IT	JAYANTHI D IT
Aadhavan V A	Aadhavan V A	ABINAYA B EE	ABINAYA B EE	ABINAYA B EE
ABINAYA B EE	ABINAYA B EE	SRI VIDHYA K ECE	ADITHYAN M EE	ADITHYAN M EE
ADITHYAN M EE	ADITHYAN M EE	Sripriya N.	Ajay Kumar R	Ajay Kumar R
Ajay Kumar R	Ajay Kumar R	Sudha Ram	Anobhama V	ANUSHRI M EE
Anobhama V	Anobhama V	Sudhamsu G D S	ANUSHRI M EE	Arun C
ANUSHRI M EE	ANUSHRI M EE	SUKUMAR T IT	Arvinth kumar	Arvinth kumar
Arjun Krishnan	Arjun Krishnan	SUMATHI G IT	ashokkumar it	ashokkumar it
Arvinth kumar	Arvinth kumar	SUNDARANARAYANAN S IT	Aswin S R	Aswin S R
ashokkumar it	ashokkumar it	Sundharakumar K B	BARATH IT	BARATH IT
Aswin S R	Aswin S R	Sundharakumar K B	Baskaran Panneerselvam	Baskaran Panneerselvam
Suchita Akkalaneni	SRI VIDHYA K ECE	uma maheshwari D	SRI VIDHYA K ECE	sri balaji MSB
Sudha Ram	Sripriya N.	UMA N IT	Sripriya N.	SRI VIDHYA K ECE
Sudhamsu G D S	Sudha Ram	Vaishali Murugavel	Sudha Ram	Sripriya N.
SUKUMAR T IT	Sudhamsu G D S	Vedhavarshini M R	Sudhamsu G D S	Sudha Ram
SUMATHI G IT	SUKUMAR T IT	VIGNESH SEKAR	SUKUMAR T IT	Sudhamsu G D S
SUNDARANARAYANAN S IT	SUMATHI G IT	Vishnupriya G	SUMATHI G IT	SUKUMAR T IT
Sundharakumar K B	SUNDARANARAYANAN S IT	SHARON FEMI P IT	SUNDARANARAYANAN S IT	SUMATHI G IT
Sundharakumar K B	Sundharakumar K B	Shruti S	Sundharakumar K B	SUNDARANARAYANAN S IT
SURIYA R IT	Sundharakumar K B	SHRUTI SHARADA ECE	Sundharakumar K B	Sundharakumar K B
uma maheshwari D	uma maheshwari D	SIVAKUMAR E IT	uma maheshwari D	uma maheshwari D
UMA N IT	UMA N IT	sri balaji MSB	UMA N IT	UMA N IT
Vaishali Murugavel	Vaishali Murugavel	SAKTHEESWARI R IT	Vaishali Murugavel	Vaishali Murugavel
Vasanth V	Vasanth V	SANGEETHA G IT	Vedhavarshini M R	Vedhavarshini M R
Vedhavarshini M R	Vedhavarshini M R	SANGEETHA ITO	VIGNESH SEKAR	VIGNESH SEKAR
Vishnupriya G	Vishnupriya G	SANTOSSH V EE	Vishnupriya G	Vishnupriya G
SIVAKUMAR E IT	SHRUTI SHARADA ECE	Rahul RK	SHRUTI SHARADA ECE	SHARON FEMI P IT
sri balaji MSB	SIVAKUMAR E IT	RAJALAKSHMI S CSE	SIVAKUMAR E IT	Shruti S
Sripriya N.	sri balaji MSB	Ramya Gunasekaran	sri balaji MSB	SHRUTI SHARADA ECE
SANGEETHA G IT	Rupavathy N	rohit kumar sundaram	SAKTHEESWARI R IT	rohit kumar sundaram
SANGEETHA ITO	SAKTHEESWARI R IT	Rupavathy N	SANGEETHA G IT	Rupavathy N
SANTOSSH V EE	SANGEETHA ITO	PRABHA BELCIA	SANGEETHA ITO	SAKTHEESWARI R IT
SHARON FEMI P IT	SANTOSSH V EE	Priya Darshini	SANTOSSH V EE	SANGEETHA G IT
Shruti S	SHARON FEMI P IT	PRIYA DARSHNI ITO	SHARON FEMI P IT	SANGEETHA ITO
SHRUTI SHARADA ECE	Shruti S	Loganayagi S	Shruti S	SANTOSSH V EE
rohit kumar sundaram	Rahul RK	Mohammed Thowfiq	Ramya Gunasekaran	Priya Darshini
Rupavathy N	Ramya Gunasekaran	Mohanavalli S.	rohit kumar sundaram	Rahul RK
SAKTHEESWARI R IT	rohit kumar sundaram	Mrudula Chavali	Rupavathy N	Ramya Gunasekaran
Neela Nagarajan	Mrudula Chavali	Neela Nagarajan	Neela Nagarajan	Mohammed Thowfiq
PRABHA BELCIA	Neela Nagarajan	NIRMALA P IT	NIRMALA P IT	Mohanavalli S.
PRIYA DARSHNI ITO	PRABHA BELCIA	KALA A IT	Priya Darshini	Mrudula Chavali
Proud engineer	Priya Darshini	KALAIARASI IT	Rahul RK	Neela Nagarajan
Ramya Gunasekaran	PRIYA DARSHNI ITO	LEELA RANI P IT	RAJALAKSHMI S CSE	NIRMALA P IT
Loganayagi S	LEELA RANI P IT	Indumathi	Loganayagi S	KALA A IT
Mohammed Thowfiq	Loganayagi S	Iyswarya R CSE	Mohammed Thowfiq	KALAIARASI IT
Mohanavalli S.	Mohammed Thowfiq	JANANI ECE	Mohanavalli S.	LEELA RANI P IT
Mrudula Chavali	Mohanavalli S.	JERUSHA S IT	Mrudula Chavali	Loganayagi S
KAAVIYA BASKARAN ITO	Joann Nittika	Joann Nittika	Joann Nittika	Indumathi
KALA A IT	KAAVIYA BASKARAN ITO	KAAVIYA BASKARAN ITO	KAAVIYA BASKARAN ITO	JANANI ECE
kalaiarasi natarajan	KALA A IT	HARSHA LEKHA ECE	KALA A IT	JERUSHA S IT
KIRUTHIKA DEVI K IT	KALAIARASI IT	Heera A R	KALAIARASI IT	Joann Nittika
LEELA RANI P IT	KIRUTHIKA DEVI K IT	HOD IT	LEELA RANI P IT	KAAVIYA BASKARAN ITO
Indumathi	Indumathi	GAYATHRI R CSE	Indumathi	Harish dominic
JANANI ECE	Iyswarya R CSE	Gokulnath V P	Iyswarya R CSE	HARSHA LEKHA ECE
JERUSHA S IT	JANANI ECE	Goutham Sekhar	JANANI ECE	Heera A R
Joann Nittika	JERUSHA S IT	GURU GOKUL AR IT	JERUSHA S IT	HOD IT
HARISH GUPTHA IT	HariniKannathal S	HariniKannathal S	HariniKannathal S	GAYATHRI R CSE
HARITHA K IT	Harish dominic	Harish dominic	Harish dominic	Gokulnath V P
HARSHA LEKHA ECE	HARSHA LEKHA ECE	diviya bhavaani	HARSHA LEKHA ECE	Goutham Sekhar
Heera A R	Heera A R	Divya Prakash	Heera A R	GURU GOKUL AR IT
HOD IT	HOD IT	FRANCIS INIGO RAJ L IT	HOD IT	HariniKannathal S
Goutham Sekhar	GAYATHRI R CSE	BARATH IT	GAYATHRI R CSE	Bush h
GURU GOKUL AR IT	Gokulnath V P	Baskaran Panneerselvam	Gokulnath V P	Chitra Saravanan
HariniKannathal S	Goutham Sekhar	Bharath Ganesh	Goutham Sekhar	Dhivya S
Harish dominic	GURU GOKUL AR IT	Bush h	GURU GOKUL AR IT	FRANCIS INIGO RAJ L IT
Dhivya S	Bush h	Chitra Saravanan	Chitra Saravanan	Bharath Ganesh
Divya Prakash	CHITRA IT	Dhivya S	Dhivya S	
FRANCIS INIGO RAJ L IT	Dhivya S	Arvinth kumar	diviya bhavaani	
GAYATHRI R CSE	Divya Prakash	ashokkumar it	Divya Prakash	
Gokulnath V P	FRANCIS INIGO RAJ L IT	Aswin S R	FRANCIS INIGO RAJ L IT	
Baskaran Panneerselvam	BARATH IT	ADITHYAN M EE	Bharath Ganesh	
Bharath Ganesh	Baskaran Panneerselvam	Ajay Kumar R	Bush h	
Bush h	Bharath Ganesh	Anobhama V		
CHITRA IT		ANUSHRI M EE		
BARATH IT		Arjun Krishnan		

**Feedback**

Timestamp	Email Address	The session delive	The subject matter	The trainer is knowle	As a result of the \	The duration of the	The pace of the \	Overall, how
7-4-2020 12:38:22	shrutisrvc@gmail.com	Strongly Agree	Strongly agree	Strongly agree	Strongly agree	Neutral	Agree	Excellent
7-4-2020 12:38:29	nrupavathyfeb23@gmail.com	Strongly Agree	Agree	Strongly agree	Agree	Agree	Agree	Excellent
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7-4-2020 12:42:19	nds@svce.ac.in	Strongly Agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Excellent
7-4-2020 12:42:33	srivi@svce.ac.in	Agree	Agree	Agree	Agree	Agree	Agree	Excellent
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7-4-2020 12:43:06	numa@svce.ac.in	Agree	Agree	Strongly Disagree	Agree	Agree	Agree	Good
7-4-2020 12:43:19	gsangeetha@svce.ac.in	Strongly Agree	Strongly agree	Strongly Disagree	Strongly agree	Strongly agree	Strongly agree	Excellent
7-4-2020 12:43:27	sagraman@gmail.com	Agree	Agree	Agree	Agree	Agree	Agree	Good
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7-4-2020 12:44:01	vaishali.murugavel@gmail.com	Strongly Agree	Strongly agree	Strongly agree	Agree	Agree	Agree	Good
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7-4-2020 12:44:29	vigneshsekar5301@gmail.com	Strongly Agree	Strongly agree	Strongly agree	Agree	Agree	Strongly agree	Excellent
7-4-2020 12:44:30	gsumathi@svce.ac.in	Agree	Strongly agree	Agree	Agree	Agree	Agree	Excellent
7-4-2020 12:45:07	aswin18222@gmail.com	Agree	Strongly agree	Strongly agree	Agree	Agree	Agree	Excellent
7-4-2020 12:45:29	mg.ramya6@gmail.com	Agree	Strongly agree	Agree	Strongly agree	Neutral	Agree	Excellent
7-4-2020 12:45:44	ssmeenagri@gmail.com	Agree	Strongly agree	Strongly agree	Agree	Strongly agree	Strongly agree	Excellent
7-4-2020 12:46:24	sharon@svce.ac.in	Agree	Strongly agree	Strongly agree	Strongly agree	Agree	Strongly agree	Excellent
7-4-2020 12:46:48	heera.rajasekar0410@gmail.com	Strongly Agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Excellent
7-4-2020 12:48:36	sundaranarayanan@svce.ac.in	Agree	Agree	Agree	Agree	Agree	Agree	Excellent
7-4-2020 12:50:25	jayanthi@svce.ac.in	Strongly Agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Excellent
7-4-2020 12:51:12	adithyan.manikandan@gmail.com	Agree	Strongly agree	Strongly agree	Strongly agree	Agree	Agree	Excellent



# SRI VENKATESWARA COLLEGE OF ENGINEERING

(Autonomous - Affiliated to Anna University)

Pennalur, Sriperumbudur - 602 117



## DEPARTMENT OF INFORMATION TECHNOLOGY

### CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **RUPAVATHY N** has participated in the **Webinar on Deployment of machine learning models in AWS using Flask framework** held on 04-07-2020 organised by Department of Information Technology.

**COORDINATOR**

**CONVENER**

**PRINCIPAL**

**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
(AUTONOMOUS – AFFILIATED TO ANNA UNIVERSITY)  
**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Webinar**  
**On**  
**“Deployment of machine learning models in AWS using FLASK framework”**

**A Report**

**Date:** 04.07.2020

**Time:** 11.00 am to 12.30 pm

**Resource Person :**

Mr. K B Sundharakumar

Assistant Professor, Department of Information Technology,

SSN College of Engineering

**Objectives:**

- Understand the basics of Machine Learning.
- Explore about FLASK framework and the supporting tools and libraries.
- Learn about deployment of Machine learning models in AWS using FLASK framework.
- Explore about models from conceptualization to production.
- Explore few real-world use cases.

The Department of Information Technology organized a Webinar on “Deployment of machine learning models in AWS using FLASK framework” on 4<sup>th</sup> July, 2020. The event started with a prayer song by III year IT student, followed by the welcome address by Ms.D.Jayanthi, AP/INT & Coordinator. The profile of the chief guest was given by Ms N. Devi, AP/INT & Coordinator.

Dr V.Vidhya, HoD/INT addressed the gathering and gave an introductory talk emphasizing the importance of Machine Learning in industry perspective. She highlighted the purpose of conducting such webinars and motivated the participants to interact on the topic.

Mr. K B Sundharakumar, Assistant Professor, Department of Information Technology, SSN College of Engineering was the resource person for the webinar. The main objective of webinar is to understand how to deploy machine learning models in Amazon Web Services (AWS) using FLASK framework which is a web micro framework of python. Also, to provide in-depth practical knowledge to the participants on ML models using FLASK framework with example case studies.

About 77 participants attended the webinar and the program highlighted how the businesses can derive AI-driven based data insights and the steps for deploying models in AWS. The speaker delivered some basics of machine learning, introduction to Amazon Web Services (AWS) and introduction to Flask framework. The tools, libraries and the technologies supported by Flask to build a web application were demonstrated to the participants. The webinar focused on demonstration of steps to build a model and other key variables and, how to create an account in AWS and to launch the instance in AWS. Also, the steps to install all the packages to run the file in AWS box and to test the output in the browser were illustrated to the participants for sample case study. The configuration settings for enhancing the security in AWS and Flask were demonstrated. The program highlighted how ML models take from conceptualization to production that is typically complex and time-consuming. And how to manage large amounts of data to train the model, choose the best algorithm for training it, manage the compute capacity while training it, and then deploy the model into a production environment.

In the valedictory function, Ms. P. Leela Rani, AP/INT & Coordinator felicitated the chief guest and motivated all the participants to work towards emerging industrial perspectives. Mr. A R Guru Gokul, AP/INT & Coordinator delivered the vote of thanks. Before the end of the program, few participants came forward and appreciated the efforts taken for the conduct of the program. They expressed that the lecture sessions and the practical sessions were very much useful and helped them to acquire practical knowledge in deployment of ML models in AWS using FLASK framework.


### **Outcome of the Program:**

Participants were benefited and gained knowledge on,

1. Python environment setup and FLASK basics.
2. Using API to integrate our model into applications and systems.
2. Creating and deploying a machine learning model in AWS.
3. Creating API using Flask for an example case study.

### **No. of Participants**

Total Number of participants - 77

 C.D. JAYANTH, AP/INT  
(N. DEVI, AP/INT)  
(P. LEEARANI, AP/INT)  
(A.R. GURU GOKUL AP/INT)

**Workshop Coordinators**



**HOD/INT**