

## TARGET AUDIENCE

This program is open to faculty members and research scholars of technical institutions, engineering colleges recognized by AICTE, Polytechnics, Universities, and other recognized institutions and Industry professionals from IT Industries

## REGISTRATION FEE:

A DD of Rs. 1000/- should be paid towards registration fees by participants. The same will be refunded at the end of the programme. DD is to be drawn in favor of "Principal, AITS, Rajampet". Duly filled registration form along with DD must be reached on or before 7<sup>th</sup> November 2019.

The number of participants is limited to 40. Participant's registration will be confirmed on first come first serve basis.

## TRAVEL AND ALLOWANCES:

Reimbursement of travel expenses will be made as per AICTE guidelines. TA will be provided to outstation participants on submission of necessary documents. Accommodation will be provided in college hostel on request.

## IMPORTANT DATES:

**Last Date for Registration: 07<sup>th</sup> November 2019**

**Notification of Selection: 12<sup>th</sup> November 2019**

**Confirmation by Participants: 15<sup>th</sup> November 2019**

## RESOURCE PERSONS:

Experts from reputed research &, academic institutions, and Industries such as IISC, IIT & NIT will deliver the sessions. Two weeks sessions are planned for the systematic conduction of the programme to help participants in implementing best practices to meet the current industry demand in the field of Data Analytics and Machine Learning.

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## COORDINATOR

**Dr. K.Prasanna, Associate Professor, CSE**

## CO-COORDINATORS

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**Mr.Kadiyala Ramana, Asst.Prof, CSE**

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## ORGANIZING COMMITTEE:

All the Faculty Members of Department of CSE & IT



## AICTE Sponsored

Two Weeks Faculty Development Programme

on

“Big Data Analytics and Machine Learning”

18<sup>th</sup> – 30<sup>th</sup> November 2019



ORGANIZED BY

**DEPARTMENT OF COMPUTER  
SCIENCE AND ENGINEERING**

**ANNAMACHARYA INSTITUTE OF  
TECHNOLOGY AND SCIENCES**

(An Autonomous Institution)

RAJAMPET-516126

Approved by AICTE & Accredited by NAAC



## ABOUT THE INSTITUTE

Annamacharya Institute of Technology & Sciences, Rajampet is an AUTONOMOUS institution and is affiliated to JNTUA, Anantapur. The institute was established in the year 1998 under the auspices of Annamacharya Educational Trust in a sprawling lush green 40-acre campus near Tallapaka, the birth place of Annamacharya, the renowned saint poet. The Institute is well located on Hyderabad - Chennai Highway. The Institute offers B.Tech, M.Tech, MCA, MBA, Ph.D courses. The Institute is accredited by NAAC with grade A.

## ABOUT THE DEPARTMENT

Department of Computer Science and Engineering was started with the inception of the college in the year 1998, with B.Tech. program in Computer Science and Engineering Course with the intake of 40 students, subsequently increased to 60,120 and 180 is the present intake. Department is also offering PG programme in Computer Science and Engineering. The Department is facilitated with highly qualified, committed and expert faculty members.

## ABOUT FDP

Data Analytics is an inter-disciplinary field that uses mathematical, algorithmic & distributed systems techniques to extract useful knowledge and insights from massive quantities of data. Big Data Analytics, Machine Learning and Deep Learning are the fastest growing and most exciting techniques applied to solve real-world problems. Annual demand for the fast-growing new roles of data scientist, data developers, and data engineers will reach nearly 700,000 by 2020. The FDP on Data Analytics and Machine Learning will bring together both academic and industry experts to provide more insight and unveil research avenues in the domain.

## OBJECTIVES

- To introduce several fundamental concepts and methods for machine learning.
- To familiarize the audience with some basic learning algorithms and techniques and their applications.
- To learn methodology and tools to apply machine learning algorithms to explore and analyze real data.
- To gain experience of doing independent study and research.
- To learn the basics of Big Data Analytics Concepts, Data preparation – merging, managing missing numbers sampling, Data visualization, Basic statistics.
- To familiarize the audience with tools for Big Data Analytics.
- To familiarize the audience how machine learning thrives on growing data sets.
- To learn tools and algorithms for creating machine learning models that learn from data, and to scale those models up to big data problems.

## TOPICS

Major topics and tools are going to be covered:

- Overview of Big Data analytics.
- Fundamentals of Machine Learning.
- Data Management towards Big Data Analytics-MongoDB.
- Big Data Analytics with R and Hadoop.
- Spark and Big data analytics
- Big Data Processing in Mobile Cloud Computing.
- Big Data and Machine Learning for Cyber Security.
- Industry perspective on Artificial Intelligence.
- Multi-objective Optimization.
- Bayesian Inference.
- Arduino and Raspberry Pi based Robot design

## FOR FURTHER DETAILS CONTACT

**Dr.K.Prasanna,**

Associate Professor,

Coordinator,

Department of CSE

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E-mail: [aitscsefdp2019@gmail.com](mailto:aitscsefdp2019@gmail.com)

## REGISTRATION FORM

1. Name :
2. Designation :
3. Institution :
4. Gender :
5. Age :
6. Address for Communication :  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. E-Mail :
8. Mobile No :
9. Highest Qualification :
10. Experience  
Teaching :  
Industry (if any) :
11. Accommodation Required (Tick): Yes / No

## DECLARATION

The above information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the programme for the entire duration.

Place:

Date:

Signature of the Applicant

## SPONSORSHIP CERTIFICATE

Mr./ Ms./ Dr.....is an employee of our Institute /organization and he is here by sponsored to attend the course if selected.

Date:

Seal and signature of  
Sponsoring Authority