## About

Online Faculty Development Program on Data Science & it's Applications In STEM

Data science is an interdisciplinary field focused on extracting knowledge from data sets, which are typically large. The field encompasses analysis, preparing data for analysis, and presenting findings to inform high-level decisions in an organization. As such, it incorporates skills from computer science, mathematics, statistics, information visualization, graphic design, complex systems, communication

In an ever-changing, increasingly complex world, it's more important than ever that our nation's youth are prepared to bring knowledge and skills to solve problems, make sense of information, and know how to gather and evaluate evidence to make decisions.

These are the kinds of skills that students develop in science, technology, engineering, and math—disciplines collectively known as STEM. If we want a nation where our future leaders, neighbors, and workers have the ability to understand and solve some of the complex challenges of today and tomorrow, and to meet the demands of the dynamic and evolving workforce, building students' skills, content knowledge, and fluency in STEM fields is essential.

This FDP aims towards imparting knowledge in the various aspects of data science and practicals using PYTHON Programming research scholars

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**Dr.Lalitha Bhaskari**
Professor, Dept of CS & SE, AUCE(A), AU
Coordinator IQAC

# Online Faculty Development Program on Data Science & It's Applications In STEM

07th Sep to 21st Sep, 2020

**Organized By**

Andhra University College of Engineering(A),Andhra University

University College of Engineering Vizianagaram,JNTUK

**In Collaboration With**

Andhra Pradesh State Council of Higher Education (APSCHE)

## About UCEV, JNTUK

The JNTUK University College of Engineering Vizianagaram has been established during September 2007 with five Under Graduate Engineering Courses Viz., B.Tech. In EEE, ECE, CSE, ME, and IT as a constituent college of erstwhile JNTU, Hyderabad. Infrastructure development works Phase I was sanctioned by Govt. to a tune of 28.10 Crores and commenced the construction work in March, 2008 at Dwarapudi, Vizianagaram with an Academic Block, Boys Hostel and Girls Hostel. In the year 2008 (20.08.2008) JNTU Kakinada has been established as a separate University with this campus as constituent college, university collage of engineering Vizianagaram has been shifted to own campus at Dwarapudi, Vizianagaram during June,2009.

## About AUCE(A),Andhra University

Andhra University is not just one of the oldest educational institutions in the country, but is also the first to be conceived as a residential and teaching-cum-affiliating University, mainly devoted to post-graduate teaching and research. Andhra University was constituted in the year 1926 by the Madras Act of 1926. The 94-year-old institution is fortunate to have Sir C.R. Reddy as its founder Vice-Chancellor, as the steps taken by this visionary proved to be fruitful in the long run. AU is one of the top universities in the state of Andhra Pradesh and it is being proved by NIRF and other national & International rankings.AU secured 19th rank in the universities category and 36th in overall category for the year-2020 by NIRF.AU is category 1 institute progressing towards institute of eminence.

## About APSCHE

Andhra Pradesh State Council of Higher Education (APSCHE) came into existence w.e.f. 20.05.1988 through Act 16 of 1988 to advise the Government in matters relating to Higher Education in the State and to oversee its development with perspective planning and for matters connected therewith and incidental there to. The Andhra Pradesh State Council of Higher Education, the first of its kind in the country, set up as per the recommendations of the National Education Policy 1986, is primarily a coordinating body between the University Grants Commission (UGC), the State Government and the Universities. It is the general duty of the Council to coordinate and determine standards in institutions of Higher Education, Research, Scientific and Technical Institutions in accordance with the guidelines issued by the University Grants Commission from time to time. The Act 16 of 1988 envisages three distinct functions (a) Planning and Co-ordination, (b) Academic Functions and (c) Advisory Functions.

## TOPICS TO BE COVERED

- Introduction to Data Science
- Essentials of Python Programming
- Mathematical Essentials of Data Science
- Probability and Statistics
- Exploratory Data Analysis
- Dimensionality Reduction Algorithms
- Machine Learning
- Data Visualization
- Deep Learning
- Big data Analytics

## Who can attend

All research scholars, Faculty, final year UG students, PG students related to STEM description and any one who want to expertise in Data Science.

## Duration

07 September 2020
To
21 September 2020

## Timings

Daily 3:00 PM to 6:15 PM

## Registration Details

**NO REGISTRATION FEE**

Registration URL:
forms.gle/Gsoz5yv8YUWAbAVf9

Last Date for registration: 05-09-2020

## Resource Persons

Resource persons from IIT's, NIT's, State Universities and industries having vast experience in area of Artificial Intelligence

## Award of Certificate

Based on 70% attendance and submission of assignments

## For any queries

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