



**Online Faculty Development Program on
"Data Science & Its Application in STEM" from
7th September 2020 to 21st September 2020**





**Andhra University and JNTUK-UCE VZM in association with Andhra Pradesh State
Council of Higher Education**

S.No	Date	Day	Name of the Topic	Session -1 3:00 pm-4:30 pm	Session -2 4:45 pm- 6:25 pm
1	07/09/2020	Monday	Introduction to Data Science	Dr. Sunil kumar Vuppala Director – Data Science, Ericsson Global AI Accelerator (GAIA), Bangalore	
2	08/09/2020	Tuesday	Essentials of Python Programming with Standard Libraries	Sri L. Venkata Rama Raju Trainer, Consultant AI	
3	09/09/2020	Wednesday	Pandas Exploratory Data Analysis, Data Visualization	Mr. Ravi Hallmarks, Solutions ,Hyderabad.	
4	10/09/2020	Thursday	Mathematical Essentials of Data Sciences	Dr. K. Anuradha Kameswari Associate Professor, Dept. Mathematics AU College of Science & Tech., Andhra University	
5	11/09/2020	Friday	Machine Learning Regression Classification, Bias Variance Dimensionality Reduction Algorithms Principal Component Analysis Security issues in ML	Dr. G. Jaya Suma, Professor & Head, Dept. of IT, UCEV, JNTUK & OSD, Kurupam	Prof. D. Lalitha Bhaskari, Professor, DFept. Of CS&SE, AUCE(A) & Coordinator, IQAC, Andhra University
6	12/09/2020	Saturday	Logistic Regression, Decision Tree Classification Bayesian Learning	Prof. V. Ravidranath OSD, JNTUK, Kakinada	
7	13/09/2020	Sunday	Ensemble Techniques	Dr. K.V. Kadambari	

				Asst.Prof, Dept of CSE NIT Warangal	
8	14/09/2020	Monday	Multivariate regression Subset selection Shrinkage methods Statistical Decision Theory Statistical Learning	Prof. K. Srinivasa Rao, Professor, Dept.of Statistics & Principal, Science College, Andhra University	Debasis, Samantha, Associate Professor, IIT Karaghpur
9	15/09/2020	Tuesday	SVM, Non-linear, Linear separable spaces Decision surface, Linear Machines hinge loss, Optimization techniques	Debasis, Samantha, Associate Professor, IIT Karaghpur	
10	16/09/2020	Wednesday	Unsupervised Learning techniques	Prof. P. Radha Krishna, HOD.CSE, NIT Warangal	
11	17/09/2020	Thursday	Introduction to neural networks, Multi layer perception, Back propagation	Prof. V. Valli Kumari Professor, Dept. CS&SE AU College of Engineering(A)	
12	18/09/2020	Friday	Introduction to Deep learning, Unsupervised learning with deep networks, Auto encoders	Prof. K. Suma Latha, Professor, Dept. of CSE & DE, JNTUK, Kakinada	
13	19/09/2020	Saturday	Convolution Neural Networks, Building Blocks of CNN, CNN Architectures, Recurrent Neural Networks LSTM,RNN Architectures	Prof. M. Shashi Professor, Dept. of CS&SE, AU College of Engineering(A)	Dr. Sirisha Associate Professor, Dept. of CSE, SRKR Engineering College, Bhimavaram
14	20/09/2020	Sunday	Transfer Learning, Significance of transfer learning, types of	Prof. M. Shashi Professor, Dept. of CS&SE, AU	Dr. Sirisha Associate Professor,

			transfer learning, case studies	College of Engineering(A)	Dept. of CSE, SRKR Engineering College, Bhimavaram
15	21/09/2020	Monday	Big data analytics Introduction to big data and enabling technologies for big data Big data machine learning with SPARK	Prof. M. Shashi Professor, Dept. of CS&SE, AU College of Engineering(A)	Dr. Sirisha Associate Professor, Dept. of CSE, SRKR Engineering College, Bhimavaram