



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



MRCET CAMPUS

BRAND OF EXCELLENCE - CAMPUS PLACEMENTS

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ORGANISING

4 DAYS WORKSHOP ON

"AI&ML- ITS ALGORITHMS"

(A HANDS - ON TRAINING)

10th -13th August, 2022

Dr. VSK Reddy Director	Dr. S. Srinivasa Rao Principal	Dr. T. Venugopal Dean Students Welfare	Dr. K.Mallikarjuna Lingam, HOD	Dr. N. Subash TPO	Mr. KDK Ajay Year Co-ordinator
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FOUR DAY WORKSHOP ON AI&ML – ITS ALGORITHMS

(A HANDS-ON TRAINING)

August 10th -13th 2022



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

(Affiliated to JNTU, Hyderabad, Approved by AICTE - Accredited by NBA & NAAC – 'A' Grade - ISO 9001:2015 Certified)

Maisammaguda, Dhulapally (Post Via. Kompally), Secunderabad – 500100, Telangana State, India.





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Malla Reddy College of Engineering and Technology (MRCET), Secunderabad is an UGC Autonomous Institution. Department of **Electronics and Communication Engineering** organized a **Four-day workshop on AI&ML- Its Algorithms, A Hands-on training** for III year ECE students from **10th to 13th August 2022**.

Objective of Workshop:

The main objective of this workshop is to provide hands-on experience to the students on AI&ML-Its Algorithms.

Highlights:

Machine Learning is one of the essential fundamentals required to step into the rapidly emerging and upcoming era of Artificial Intelligence (AI).

Python has surfaced as a dominant language in AI/ML programming because of its simplicity, flexibility and support for open source libraries





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AI&ML – ITS ALGORITHMS HANDS-ON WORKSHOP

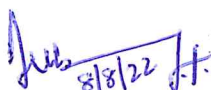
SCHEDULE 2024 PASSOUT

10-13 August, 2022

S.No	DATE	Topics ad Sub Topics	DURATION
1	10.08.2022	<ul style="list-style-type: none">• Introduction to Python and IDEs – The basics of the python programming language, how you can use various IDEs for python development like Jupyter, Pycharm, etc.• Python Basics – Variables, Data Types, Lists, Tuples, Sets, Dictionaries, Loops, Conditional Statements, functions, lambda functions, file handling and exception handlingCreating arrays from ranges, Indexing and slicing in numpy, Append and resize functions, Nditer and broadcasting, Array manipulation functions ,Numpy unique() ,Numpy delete() ,Numpy insert function ,Numpy ravel and swapaxes(), Split function,Hsplit function ,Vsplit function, Leftshift and rightshift functions	6 Hrs
2		Basics with NumPy	
	11.08.2022	<ul style="list-style-type: none">• Numpy attributes and functions, Creating arrays from existing data,• Numpy trigonometric functions , Numpy round functions, Numpy arithmetic functions ,Numpy power and reciprocal functions ,Numpy mod function, Numpy imag() and real() functions ,Numpy concatenate(), Numpy statistical functions ,Statistical functions ,Numpy average function, Numpy sort function, Numpy argsort(), Extract function, Numpy argmax argmin(), Numpy string functions, Numpy center function, String functions, Numpy matrix library, Numpy join arrays	6 Hrs
3	12.08.2022 & 13.08.2022	<ul style="list-style-type: none">• Basics of the Pandas library,How to import data using Pandas: Read data into Python• How to write data using Pandas ,Perform data analysis and manipulation using Pandas:Select columns and rows in Pandas• Manipulate columns in Pandas - Rename columns, sort data in Pandas dataframe, binning data using Pandas, etc.• How to deal with missing values using Pandas• What is the Apply function in Pandas and how you can use it• Aggregate data in Pandas - a very handy tool for quick data analysis• How to merge and join multiple Pandas dataframes	12 Hrs

	<ul style="list-style-type: none"> • Exploratory Data Analysis, Feature engineering, Feature scaling, Normalization, standardization • Null Value Imputations, Outliers Analysis and Handling, VIF, Bias-variance trade-off, cross validation techniques, train-test split.
	<p style="text-align: center;">Data Visualization & Algorithms</p> <ul style="list-style-type: none"> • Bar charts, scatter plots, count plots, line plots, pie charts, donut charts, etc, with Python matplotlib. • Regression plots, categorical plots, area plots, etc, with Python seaborn. <p>Supervised Learning Unsupervised Learning and related Algorithms</p>

S.NO	SECTIONS	VENUE	TRAINER NAME
1	A & C	PLACEMENT BUILDING GROUND FLOOR LAB	Mr. Venkat
2	B	PLACEMENT BUILDING II ND FLOOR LAB (FRONT SIDE)	Mr.Krishna
3	D	PLACEMENT BUILDING II ND FLOOR LAB (BACKSIDE SIDE)	Mr.Saradhi


 8/8/22 H.
 Dr. N. Subash
 TPO


 8/8/22
 Dr.K. MALLIKARJUNA LINGAM
 HOD

Sd/-
 Dr. S. SRINIVASA RAO
 PRINCIPAL



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