JNTUA COLLEGE OF ENGINEERING
Kalikiri, Chittor district, Andhrapradesh-517234
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

JUNE
Be Ready!
2ND & 3RD

C-ELIT
CREATIVE_CHALLENGING_CODING
2K22

WORKSHOP :-
- CYBER SECURITY
- DATA SCIENCE

SPECIAL EVENTS :-
- FLASHMOB
- CULTURALS
- LASER SHOW

TECHNICAL EVENTS
- PPT PRESENTATION
- TECHNICAL SNAKES & LADDERS
- KNACKERS
- WEB DESIGNING
- BUG SMASHER
- BLIND CODING

NON TECHNIAL EVENTS
- QUIZ [MYHOLOGY, G.K,MOVIE]
- TREASURE HUNT
- REELS CONTEST
- PHOTOGRAPHY
- ART EXPO
- e-MAGAZINE

PATRON:
Prof.S.V.SATYA NARAYANA
PRINCIPAL JNTUACE KALIKIRI

CONVENER:
Prof.SHAIK NASEERA HCSED

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- G.THAPASWINI
- B.NAGABHUSHANA BABU

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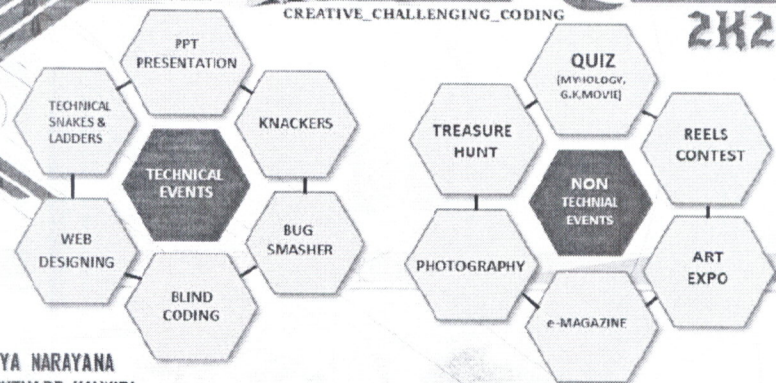
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31st May 2022

To,
The Head of the Department,
Department of ECE,
JNTUA College of Engineering,
Kalikiri.

HCSED
701
3)5

Subject: Request to use ECE Seminar Hall -Reg.

The Department of CSE is organizing a national level technical symposium, CELIT 2K22, on 2nd and 3rd June , 2022.In this connection, we are conducting workshop on Data Science . We are requesting to give us ECE Seminar hall for 2 days i.e on 2nd and 3rd June, 2022 for smooth conducting of workshop.

Thanking you sir,

HCSED

Received
6/6/2022

REGISTRAR
J.N.T.U. Anantapur
ANANTAPURAMU-515002

JNTUA COLLEGE OF ENGINEERING , KALIKIRI

Kalikiri- 517234, Annamayya Dist. A.P.

Department Of Computer Science and Engineering

C-ELIT 2K22
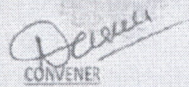
Creative... Challenging... Coding...

A National Level Student Technical Symposium

CERTIFICATE

This is to certify that Mr./Ms. _____B. Abhishek_____ has participated in the

Workshop of **DATA SCIENCE** at C-ELIT 2K22, organised by the Department of CSE , JNTUA College of

Engineering Kalikiri during 2nd & 3rd of June 2022.

INSTRUCTOR

Ajinkya Lohakare
Data Scientist

CONVENER

Prof. Shaik Naseera
Head Of CSE Department
JNTUACE Kalikiri

PRINCIPAL

Prof. S.V.Satya Narayana
Principal of JNTUACE Kalikiri

REGISTRAR
J.N.T.U. Anantapur
ANANTAPURAMU-515002

C-ELIT2K22 - A National Level Student's Technical Symposium, organized by the Department of Computer Science and Engineering, JNTUACE, Kalikiri on 02-06-2022 To 03-06-2022

The aim of holding this symposium is to foster the creation and dissemination of rapidly growing knowledge for better learning in areas of Computer Science and Engineering. This Symposium provides an opportunity to review the current status and future trends in Computer Science and suggests viable ways in adopting the latest developments. This symposium encourages the students to present their views, ideas and exhibits their talents by participating in various technical events like project-expo, blind coding, coding and debugging, paper presentation, technical quiz etc. By this Symposium, we intend to bring out the emerging trends in Computer Science and Engineering stream.

As a part of this Symposium various technical events, non-technical events and workshops are conducted. Around 250 Students are participated in various events. A two day workshop on Data Science and a two day workshop on Cyber Security are organized. These workshops focused mainly to provide hands on experience on usage of Cyber Security tools and Data Science software.

The resource person team of Cyber Security introduced the concepts of Cyber security principles, malware analysis, email and social media security. The Data science team introduced data science in python, analyzing a dataset, data preparation, classification and cluster analysis, the generalization of Machine Learning Models.

The resource team introduced the fundamental concepts of on Data Science . Exposure to software tools will help the modern computer science engineer to satisfy the customer needs and producing better quality output among the options available in short duration. The students are given handson experience with the software by working on several examples.

Data Science Workshop Contents:

1.Introduction to Data Science in Python

Python is open source, interpreted, high level language and provides great approach for objectoriented programming. It is one of the best language used by data scientist for various data

science projects/application. Python provide great functionality to deal with mathematics, statistics and scientific function. It provides great libraries to deals with data science application.

2. Analyzing a DataSet

Data Analysis is the technique to collect, transform, and organize data to make future predictions, and make informed data-driven decisions. It also helps to find possible solutions for a business problem. There are six steps for Data Analysis. They are: Ask or Specify Data Requirements, Prepare or Collect Data, Clean and Process, Analyze, Share, Act or Report

3. Data Preparation

Pre-processing refers to the transformations applied to our data before feeding it to the algorithm. Data Preprocessing is a technique that is used to convert the raw data into a clean data set. In other words, whenever the data is gathered from different sources it is collected in raw format which is not feasible for the analysis.

4. Regression

Linear regression is a statistical method for modeling relationships between a dependent variable with a given set of independent variables.

5. Binary Classification

Binary Classification: When we have to categorize given data into 2 distinct classes. Example –
On the basis of given health conditions of a person, we have to determine whether the person has a certain disease or not.

6. Multiclass Classification with Random Forest

Every decision tree has high variance, but when we combine all of them together in parallel then the resultant variance is low as each decision tree gets perfectly trained on that particular sample data, and hence the output doesn't depend on one decision tree but on multiple decision trees.

7. Performing cluster Analysis

It is basically a type of unsupervised learning method. An unsupervised learning method is a method in which we draw references from datasets consisting of input data without labeled responses. Generally, it is used as a process to find meaningful structure, explanatory underlying processes, generative features, and groupings inherent in a set of examples.

8. Generalization of Machine Learning Models

Machine Learning is the ability of the computer to learn without being explicitly programmed. In layman's terms, it can be described as automating the learning process of computers based on their experiences without any human assistance. Machine learning is actively used in our daily life and perhaps in more places than one would expect.

Event Type	WORKSHOP
Date / Duration	2nd to 3rd June 2022
Resource Team	Bangalore
Target Audience	B.Tech Students.
Total no of Participants	60
Objective of the event	Workshop on Data Science to explore the software tools will help the modern computer science engineer
Outcome of event	➢ Understand the concepts of data science ➢ To explore software tools
Feedback / Suggestions	Students gave positive feedback on the workshop and requested to conduct more workshops like certified courses