

**SIX DAY WORKSHOP
ON
AI EXPEDITION: UNVEILING ADVANCED MACHINE LEARNING
& CHATBOT DEVELOPMENT WITH HACKATHON**

Organized by: Department of Computer Science & Applications

Report

A Six day Workshop was organised by the Department of Computer Science and Applications on “**AI EXPEDITION: UNVEILING ADVANCED MACHINE LEARNING & CHATBOT DEVELOPMENT WITH HACKATHON**” for III B.C.A & III DS students from 28-08-2023 to 02-09-2023 at 10:00 A.M to 4:30 P.M daily in Lab-IV. The Resource Person is CH. Guna Shekar, Alumni of K.B.N College.

Objectives:

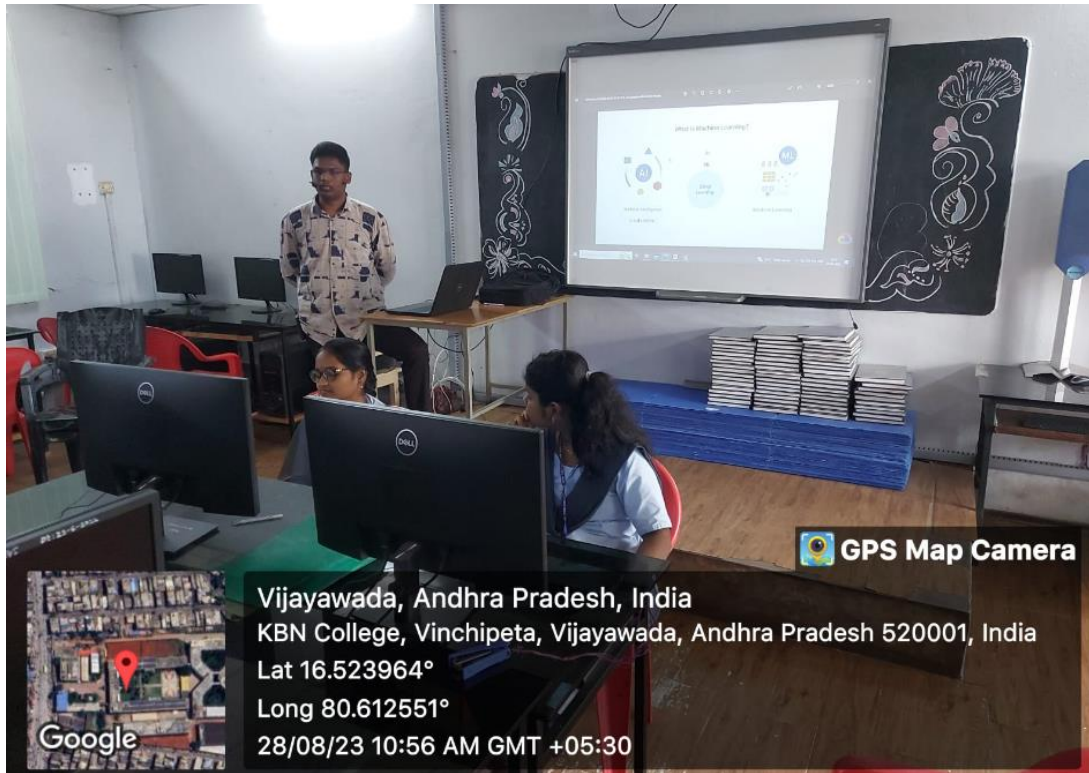
1. Basic concepts of Machine Learning, Deep Learning and Artificial Intelligence.
2. Cloud Deployment
3. Various tools in github, githublfs, streamlit cloud, anaconda, google colab, yolov8, deepface, stack-AI, botpress, telegram integration
4. Machine Learning projects based on Classification and Regression problems.
5. Chatbot development with Hackathon

DAY – 1: FOUNDATIONS OF MACHINE LEARNING

Brief introduction about the following topics:

1. Machine Learning
2. Deep Learning
3. Artificial Intelligence
4. Generative AI
5. Docker
6. Github
7. Google Teachable Machine

SESSSION-1



SESSION – 2

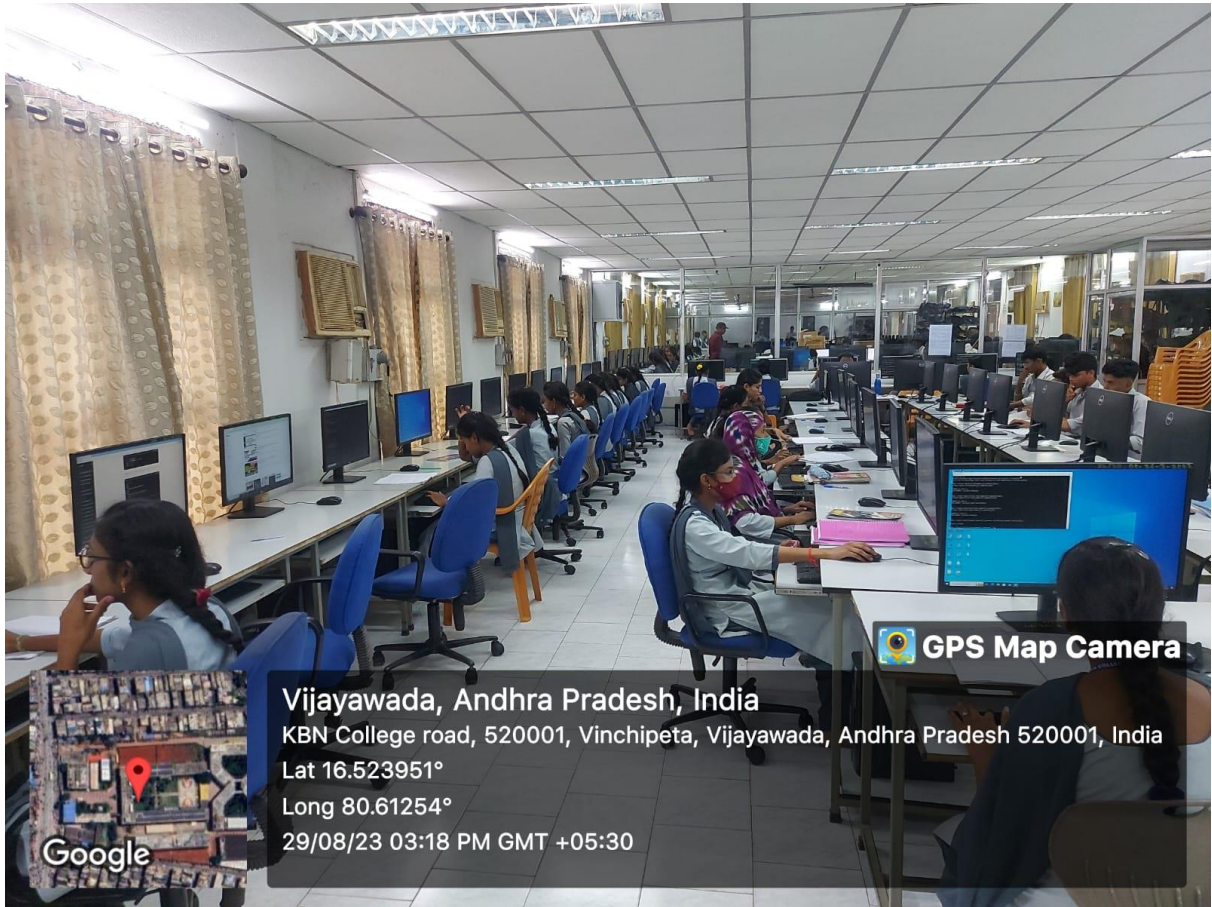


DAY – 2: MACHINE LEARNING PROJECT

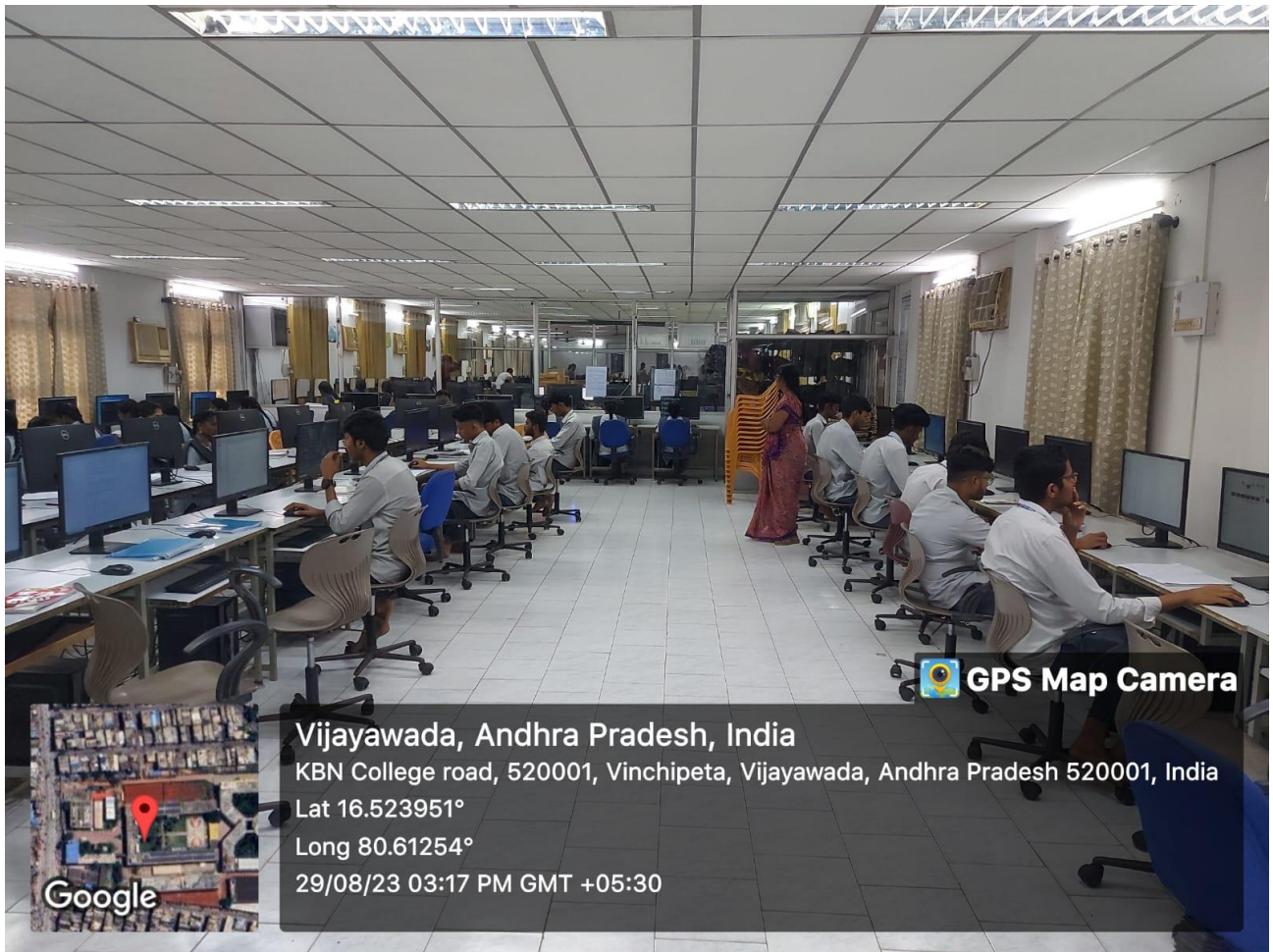
Machine learning projects based on Classification

1. Classification problem statement on loan amount prediction
2. Deployment: local, cloud
3. Tools: github, google colab
4. Framework: streamlit for both cloud and local

SESSION – 1



SESSION – 2

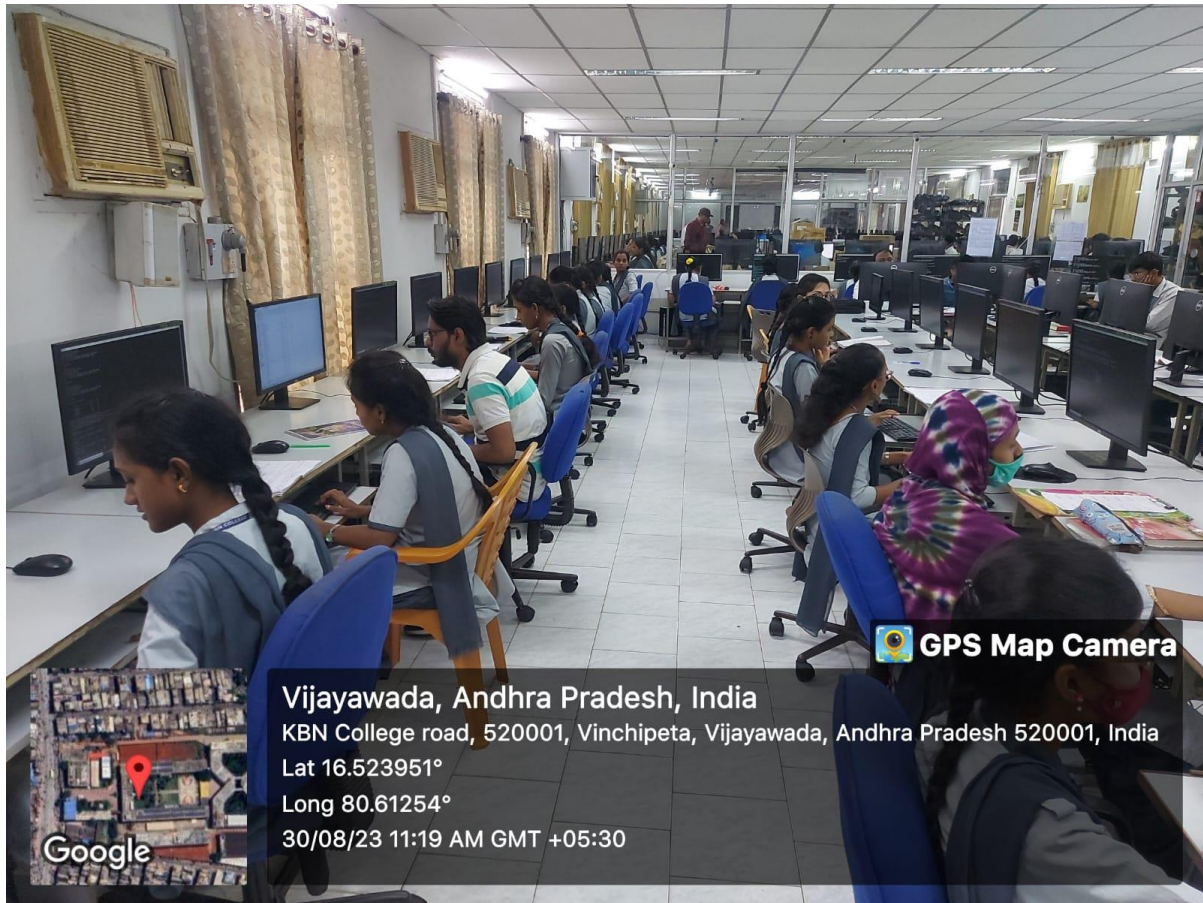


DAY – 3: DEEP LEARNING CLASSIFICATION

Regression Problem

1. Regression problem statement on sales of a company data based on advertisements
2. Deployment: local, cloud
3. Tools: github, google colab
4. Framework: streamlit for both cloud and local
5. Assignment on stroke heart prediction

SESSION – 1



SESSION – 2



DAY – 4: DEEP LEARNING DETECTION

Handwritten digit classification

1. Deployment: local, cloud
2. Tools: github, google colab
3. Framework: streamlit for both cloud and local

Race detection

1. Deployment: local, cloud
2. Tools: github, google colab
3. Framework: deepface, streamlit for both cloud and local

SESSION – 1



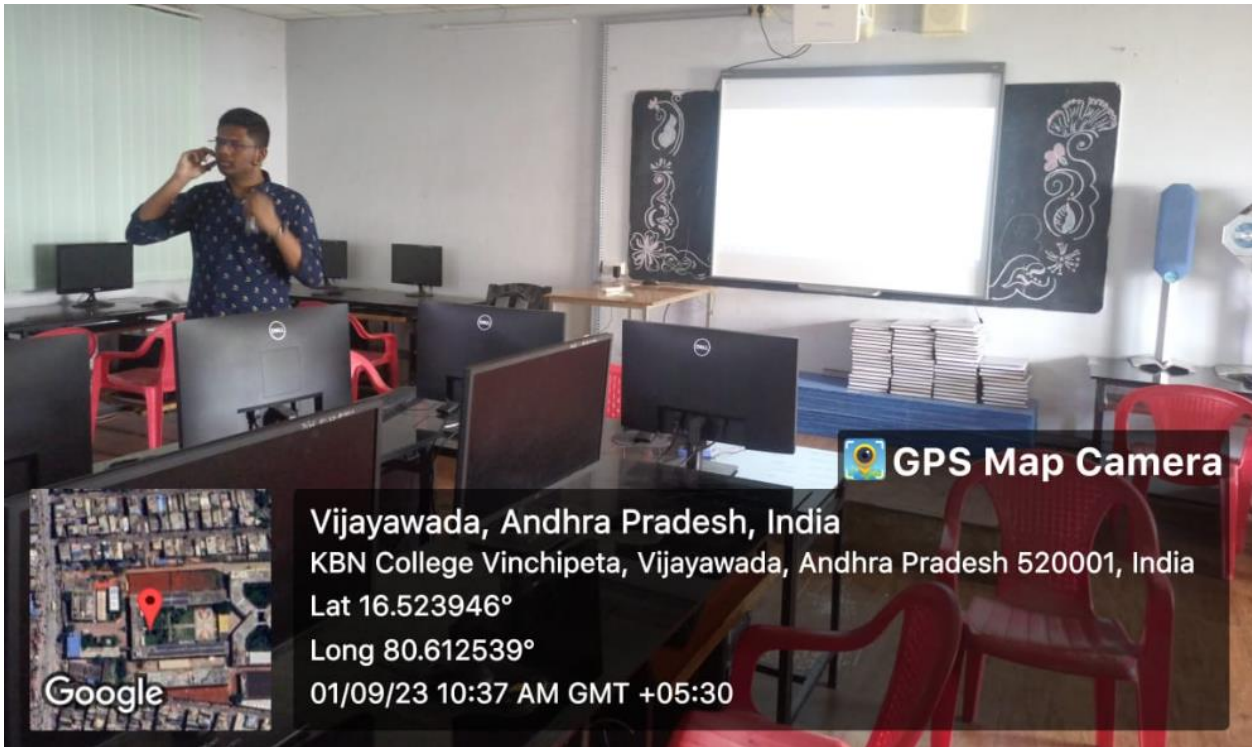
SESSION - 2



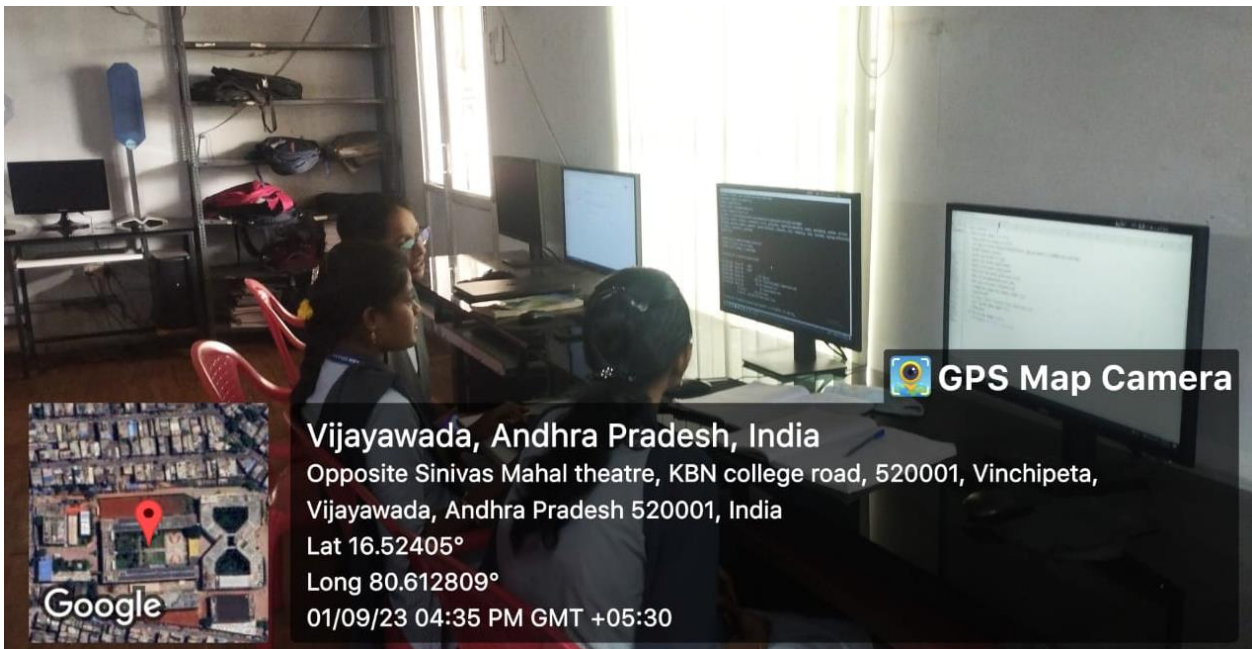
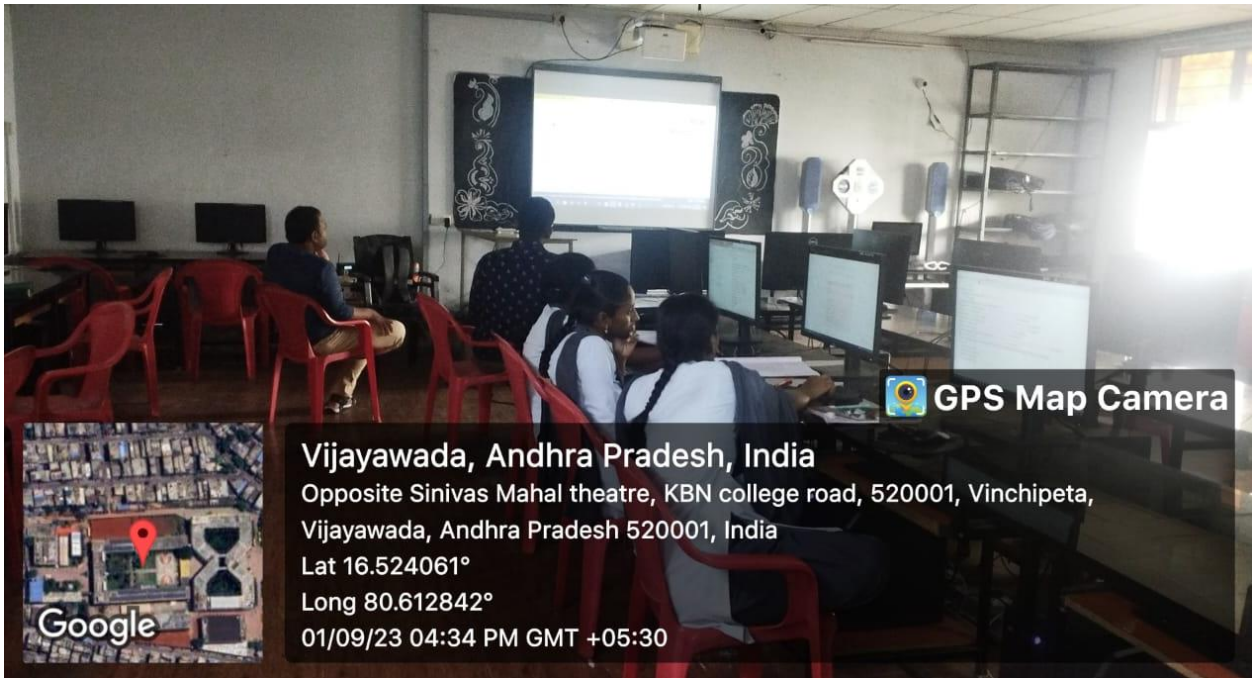
DAY -5: CHATBOT DEVELOPMENT

1. Chatbot based on Github documentation
2. Projects on
3. Brain Tumour classification,
4. Diabetes prediction,
5. Water probability Prediciton

SESSION - 1



SESSION – 2

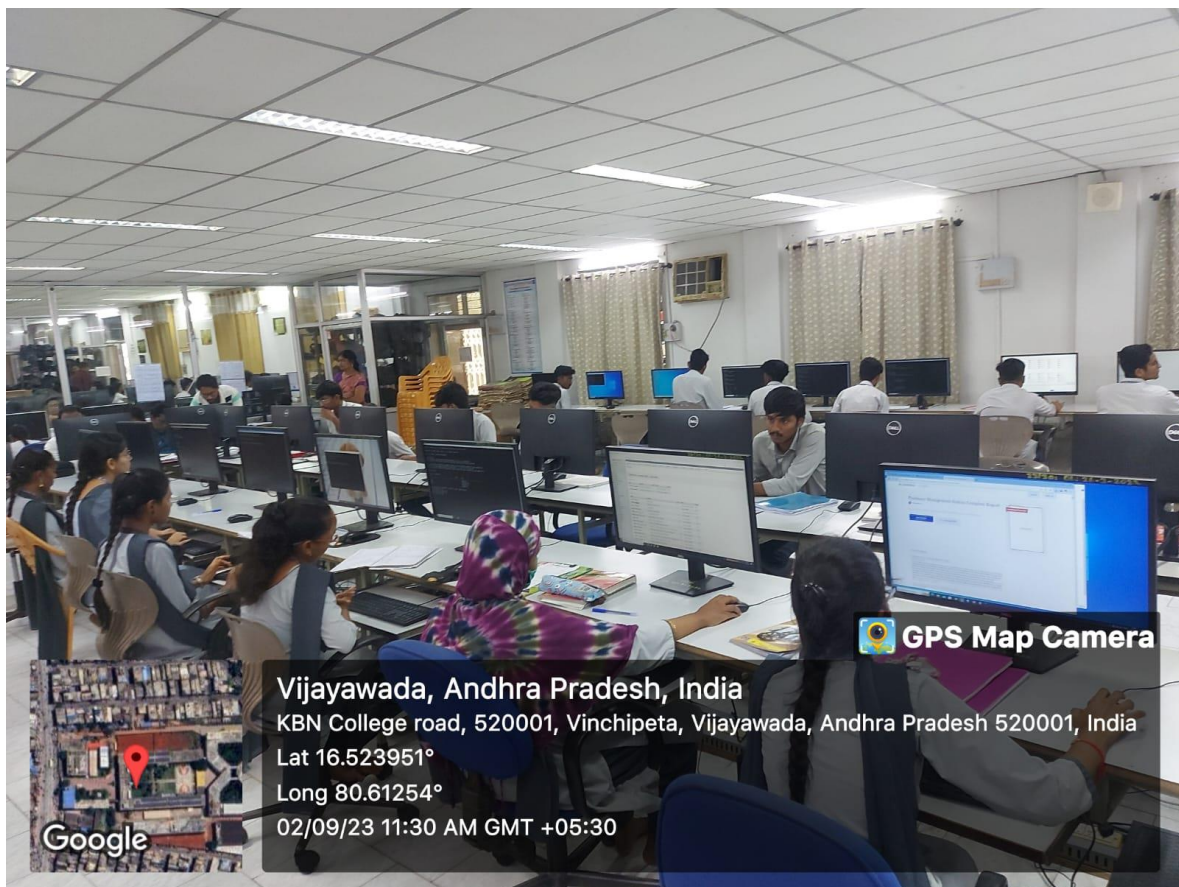


DAY -6: HACKATHON

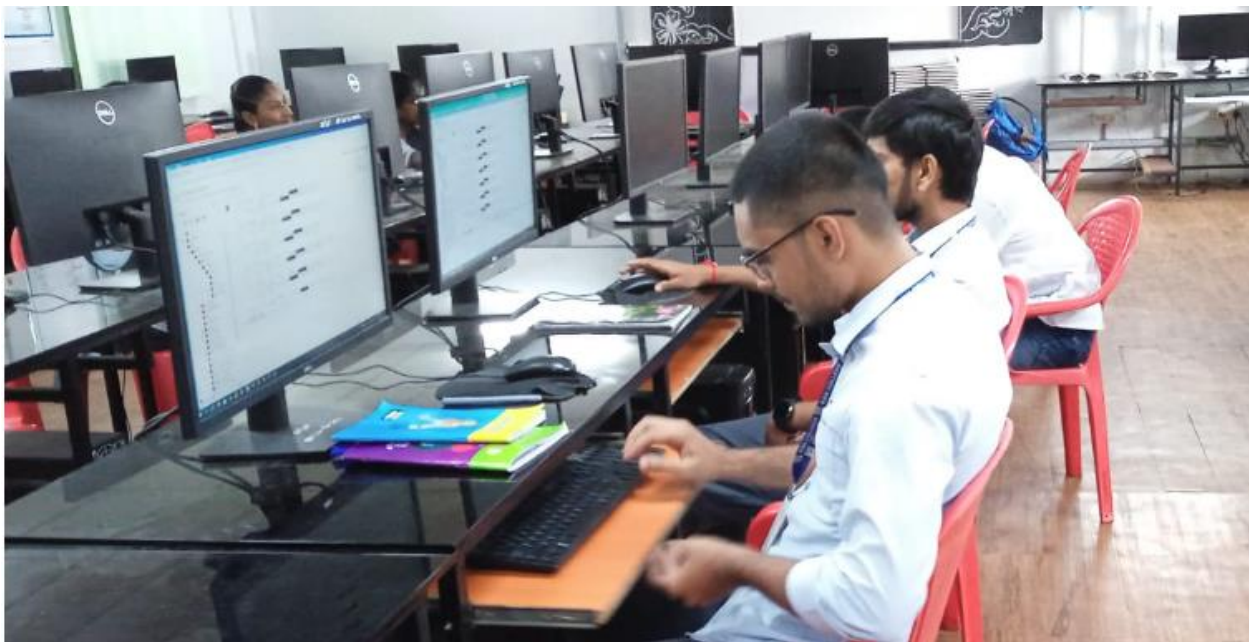
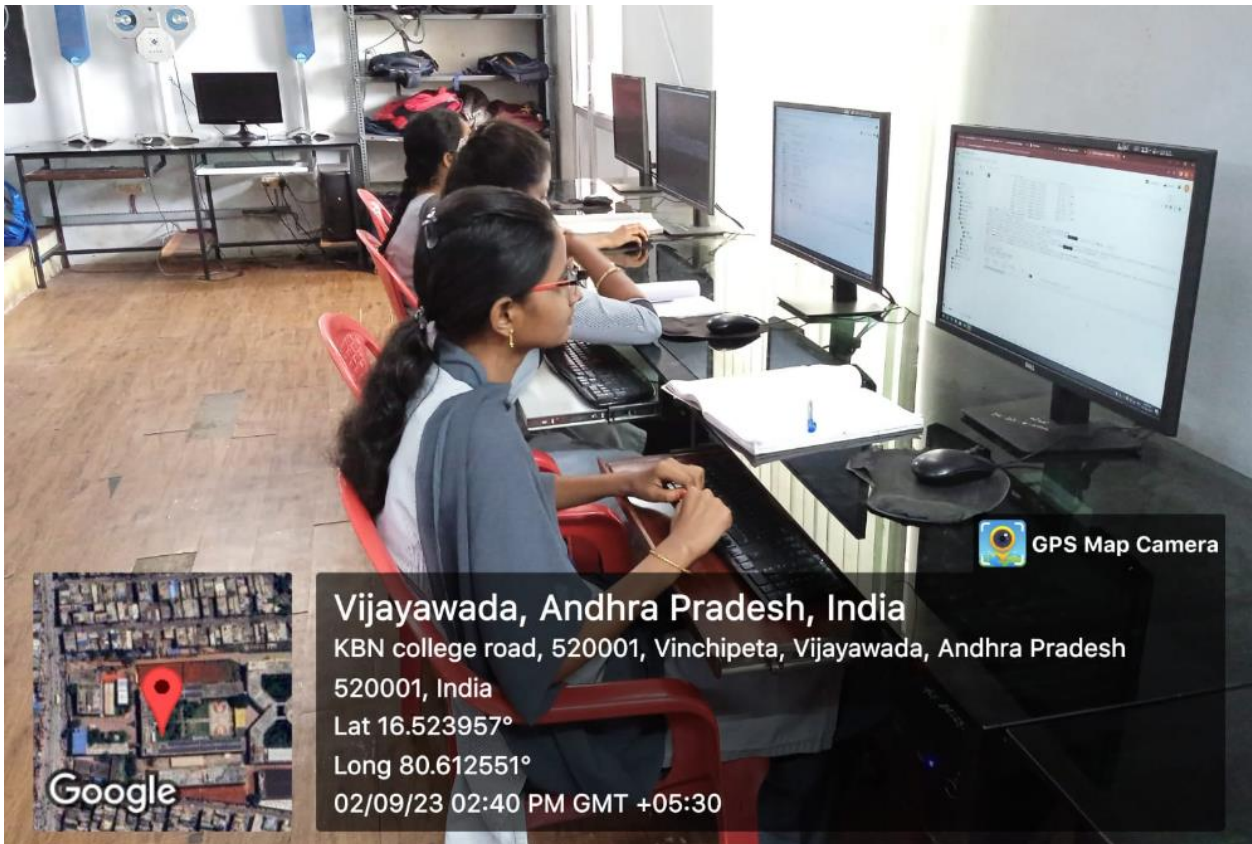
In AI Hackathon students come together to collaborate and create innovative AI solutions or projects within a limited timeframe. The primary goals of an AI Hackathon are to encourage creativity, problem-solving, and rapid development of AI-based prototypes or solutions. These events can focus on a wide range of AI applications, such as natural language processing, computer vision, machine learning, and more.

At the end of the workshop, students presented their project on pneumonia detection to a panel of judges, and prizes are awarded to the most promising or innovative solutions. AI Hackathons are a great way for individuals to showcase their skills, learn from others, and contribute to the advancement of AI technology

SESSION – 1



SESSION -2



CONCLUSION & OUTCOME

In this workshop, students learned about the following:

Basics of ML: Fundamental concepts of Machine Learning.

Basics of AI: Fundamental concepts of Artificial Intelligence.

Basics of DL: Fundamental concepts of Deep Learning.

Developed projects based on classification problems, regression problems

Total No. of Participants: 59

Faculty Members involved in this workshop are

Mr. P. Ravindra

Smt. M. Kala Devi

Smt. V. Bangaru Lakshmi

Smt. S. Yasodha

FELICITATION



Dr V. Narayana Rao, Principal, Sri P.L Ramesh, Vice Principal, Sri M. Vennkateswar Rao, Vice Principal and Mr. P. Ravindra, H.O.D of Computer Science & Applications felicitated the resource person Mr. CH. Guna Shekar

Cash Prizes awarded to the students



Dr V. Narayana Rao, Principal, Sri P.L Ramesh, Vice Principal and Mr. P.Ravindra, H.O.D of Computer Science & Applications presented cash prizes to the students

LIST OF STUDENTS PARTICIPATED

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INVITATION



The poster features a central image of a human hand shaking a robotic hand. At the top left are logos for NAAC (Grade A), UGC-CPE, and ISO 9001:2015. At the top right is the logo of Kakaraparti Bhavanarayana College, Vijayawada. The main title 'AI EXPEDITION' is in large blue letters, with 'SIX-DAY WORKSHOP' above it. Below the title is the subtitle 'UNVEILING ADVANCED MACHINE LEARNING AND CHATBOT DEVELOPMENT WITH HACKATHON'. The dates '28-08-2023 TO 02-09-2023' are shown with a calendar icon. A blue speech bubble on the right says 'HACKATHON WINNERS CASH REWARD'. A blue speech bubble on the left says 'HANDS-ON PRACTICE'. The text 'ORGANIZED BY Dept. of Computer Science & Applications' is in red. Below that, an alarm clock icon is followed by the text 'Every day 10:00 am to 4:30 pm'. The college name 'Kakaraparti Bhavanarayana College (Autonomous)' is in blue, and the sponsor information 'Sponsored by: S.K.P.V.V Hindu High Schools Committee Affiliated to Krishna University, Machilipatnam' is at the bottom.

NAAC A **UGC-CPE** **ISO 9001:2015**

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AI EXPEDITION

UNVEILING ADVANCED MACHINE LEARNING AND CHATBOT DEVELOPMENT WITH HACKATHON

📅 28-08-2023 TO 02-09-2023

HACKATHON WINNERS CASH REWARD

HANDS-ON PRACTICE

ORGANIZED BY
Dept. of Computer Science & Applications

 Every day 10:00 am to 4:30 pm

Kakaraparti Bhavanarayana College (Autonomous)

Sponsored by: S.K.P.V.V Hindu High Schools Committee
Affiliated to Krishna University, Machilipatnam

Program Highlights

AUGUST 28th - SEPTEMBER 2, 2023

28
AUG

Foundations of
Machine Learning

Machine Learning
project

29
AUG

30
AUG

Deep learning
(classification)

Deep learning
(detection)

31
AUG

1
SEPT

Chatbot
Development

Hackathon

2
SEPT

2
SEPT

Hackathon winners
Cash Reward